

CONTINUATION OF THE "INDIAN CALENDAR"

ECLIPSES OF THE MOON IN INDIA

BY

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PREFACE

THE present volume has been prepared in continuation of the "Indian Calendar", which contained, *inter alia*, Tables drawn up by Dr. Robert Schram for determining questions connected with eclipses of the sun in India for a period of 1600 years. The eclipses of the moon are now dealt with, and a few notes added.

I desire to express my best thanks for their kind advice and assistance to Professor H. H. Turner, of Oxford, and Mr. A. C. D. Crommelin, of the Royal Observatory, Greenwich.

Pandit Śaṅkara Bâlkrishṇa Dîkshî, whose death early in the present year is greatly to be deplored, rendered valuable help by checking my figures.

June, 1898.

R. SEWELL.

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INTRODUCTION, RULES, AND EXAMPLES.

THE following Tables will be found to contain all that is necessary for the determination of the actual time of occurrence of eclipses of the moon for the period of sixteen hundred years, from A.D. 300 to 1900. The calculations in Table E. have been based on von Oppolzer's *Canon der Finsternisse* (*Denkschriften der Mathematisch naturwissenschaftlichen classe der Kais. Akademie der Wissenschaften in Wien, Vol. LII., 1887*). All eclipses are included, whether visible or invisible. Visibility at a given spot, if not apparent on the face of Table E., must be tested according to the rules hereinafter given.

The results obtained will be closely approximate, but are liable to small errors of a minute or two, owing to minor inequalities in the moon's motion which have been left out of account by Oppolzer. Table G. also is similarly liable to slight variations, for reasons which will be noted below. Absolute exactness is impossible under the circumstances, and it would be useless to attempt more than is given in this volume.

A comparison between the times fixed by Oppolzer's *Canon* and by the *Nautical Almanacks* since the year 1767 (*see Table H.*) will shew how even the most reliable authorities differ in their calculations.

A lunar eclipse is visible in the same degree on every part of the earth's surface which, during any part of its occurrence, is turned away from the sun and towards the moon—then at the full and on the other side of the earth; or, in other words and speaking broadly, on any meridian between the hours of sunset and sunrise. For Indian purposes, therefore, the calculations for these tables have been made for the meridian of Lañka (Ujjain), *i.e.* Greenwich East Longitude $75^{\circ} 46'$, and the necessary time-correction, 5 h. 3 m., has been applied to the *Canon* figures which were prepared for the meridian of Greenwich. All times are measured from mean sunrise at Lañka, taken as 6 A.M.

Von Oppolzer calculated every eclipse in apparent time; and then, for civil purposes, changed this to mean- or clock-time for the meridian of Greenwich by applying the daily equation of time. The tables in the present volume give similar mean time for the meridian of Lañka.

No account has been taken of the effect produced on the moon by the penumbra, but

the question remains doubtful, and in such case the actual visibility at any given spot must be ascertained.

For this purpose it is necessary (a) to alter the hour given in Table E. to suit the longitude of the given place; (b) to convert the mean time of the table into apparent (or true) time; (c) to find the moment of sunrise or sunset on the day and at the place in question.

(a) The time-correction for longitude is plus one minute of time for every 15' of longitude east of, or greater than, the base meridian ($75^{\circ} 46'$), and minus one minute of time for every 15' west of, or less than, the same. Four minutes of time to one degree of longitude.

(b) Table F. gives the equation of time in minutes, for intervals of five days throughout the year for the period covered by the principal table. (If it is at any time desired to convert apparent time into mean time, this can be done by using the table with reversed signs.)

(c) Table G., copied from Raper's *Practice of Navigation* Table 26, but with the days of the year added to the sun's declination in degrees in order to facilitate work, gives the hours and minutes of sunrise and sunset in different latitudes on different days. I have ventured to add the days of the year to this table, because there are no almanacks extant in India earlier than those of the last few decades to which reference can be made in order to ascertain the sun's declination on any given day. It is true that the inclusion of the days of the year introduces, in distant epochs, small errors due to various causes, such as the change in the obliquity of the ecliptic, and of the perihelion point of the earth's orbit. But the sum of these would not amount to much;¹ and if the little Table given in Rule 5 below be used, which brings Old Style dates into harmony with the present Calendar, these slight variations in the sun's declination may well be left out of account.

Another variation is caused by the fact that, since the moon is actually at the full at mid-eclipse, she is not quite full at the beginning, and she is a little past the full at the end of the eclipse. For localities such as India, no part of which is very far distant from the equator, this variation, even in the extreme case of an eclipse prolonged to a duration of four hours, would not amount to more than four minutes.

If all these variations operated in one direction the time-difference so caused might of course amount to several minutes, but it often, indeed generally, happens that one cause of variation works against and helps to annul another. At the worst they only affect the question of the visibility at the last few moments of an eclipse ending when the moon is just rising, or the first few moments of an eclipse beginning when the moon is just setting; and since the difference is then compensated by the effects produced by refraction, it is not necessary to consider them. The beginning or ending of an eclipse cannot be generally observed nearer than one minute, and sometimes two or three minutes of time, even under the most favourable conditions.

I have thought it advisable to give a list of eclipses as fixed by the *Nautical Almanack* since A.D. 1767, the date of its first publication. These may be compared with the data obtained from Oppolzer's Canon. I have reduced the actual figures given in the *Nautical Almanack* to our requirements (1) by altering the hour to suit the Indian system, according to which the day begins at mean sunrise (6 A.M.) on the meridian of Lanka, (2) by applying the time-difference between the longitudes of Greenwich and Lanka, and, (3) up to the year 1834, by applying the daily equation of time. Since 1834 the *Nautical Almanack* figures are themselves given in

¹ Probably not more than half a degree, or two minutes of time, for two years differing as much as possible. (Professor Turner.)

It may be as well to point out that these Tables are applicable not only to India, but to all places in the world lying between N. Lat. 0° and 39° . To use them for mean or clock time for any part of the globe, it is only necessary to apply to the figures given in Table E. the time-difference for longitude (4 minutes to a degree) east or west of our base-meridian, which is, as stated, $75^{\circ} 46'$ east of Greenwich. This gives the hour of eclipse by the clock on any meridian in latitude 0° . For apparent time Table F. is applicable to all parts of the world. To find the hour of sunset or sunrise Table G. may be used for any place between the equator and N. Lat. 39° .

RULES, AND USE OF TABLES.

Rule I. Note the details regarding the eclipse given in Table E.

On any date and for any place in India the eclipse was invisible if it occurred altogether between 1.51 and 9.22.

If its beginning or ending overstep these limits the eclipse may have been visible at some place in India. In such case it must be examined.

Rule II. In case an examination is necessary take the latitude and longitude of the place in question. Table XI. of the "*Indian Calendar*" (p. cxix) may be used, or a reliable map.

Rule III. Correct Table E. for longitude, thus;—Lanka longitude, or the longitude of the base meridian of the Tables, being $75^{\circ} 46'$ east of Greenwich, add one minute of time for every $15'$ of longitude east of this, and deduct one minute of time for every $15'$ of longitude west of it.

Rule IV. To find the apparent or true time of eclipse, apply to the figures given in E., the correction noted in Table F.

Rule V. Then consider the latitude of the place. The moment of the occurrence of the different phases of the eclipse will remain unaffected, but the visibility of the eclipse depends on the time of sunrise or sunset in this locality, and this varies with the latitude.

Table G. gives these hours of sunrise and sunset. But for Old Style dates a correction is necessary, which is supplied by the little Table below. It must be borne in mind that this

OLD STYLE ADJUSTMENT FOR USE OF TABLE G.												
A.D.												
500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700
1	2	3	3	4	5	6	6	7	8	9	9	10
N.B. No adjustment is necessary before A.D. 500, or after A.D. 1752.												

alteration of date is *solely for use of Table G.*, the English date of eclipse remaining unaffected. Where necessary, therefore, *add* to the day given in Table E. the number of days noted in this sub-Table, and then use Table G. to ascertain the duration of daylight on the day of eclipse at the latitude in question.

EXAMPLES.

1. Eclipse of December 2, 1750. This began at 3 h. 32 m. after 6 A.M. and ended at 7 h. 16 m. It was therefore invisible in any part of India.

2. Eclipse of February 28, 1896. I select this because it can be tested by a reliable almanack. How was it at Madras? Work with Table H. It began at 17.19 and ended at 20.18. Nearly $\frac{11}{12}$ ths. of the disc were obscured.

Rule I. It was visible, clearly, in some part of India.

Rule III. Madras E. Long. $80^{\circ} 13' 30''$ or +18 m. of time. Apply this, and we have for the beginning 17.37, and for the ending 20.36. This corresponds with the entry in the Madras Asylum Press Almanack, viz., 11.37 P.M. on 28th, and 2.36 A.M. on 29th February.

There is no need to apply Rules IV. or V.

3. Eclipse of November 13, A.D. 300. How was it at Śrinagar in Kashmir?

It was total and ended at Lanka at 12.21 (*Table E.*) or 6 h. 21 m. P.M. Correct to apparent time (*Table F.*) (6 h. 21 m. + 17 m. =) 6 h. 38 m. P.M. Totality ended (11 h. 15 m. + 17 m. =) 11 h. 32 m., or 5 h. 32 m. P.M., apparent time. At Lanka therefore the eclipse was visible for only the last 38 m. of partial obscuration, sunset being at 6.0 P.M. But at Śrinagar (N. Lat. $34^{\circ} 6'$, E. Long. $74^{\circ} 52'$ —see the "*Indian Calendar*" *Table XI.*—) the case was different. Correct for longitude. $75^{\circ}.46' - 74^{\circ}.52' = 54' = 4$ minutes of time. 6 h. 38 m. - 4 m. = 6 h. 34 m. This then was the moment of the end of the eclipse. But the sun set (*Table G.*) at 5 h. 8 m. P.M., so that the eclipse was visible at Śrinagar for an hour and twenty-six minutes after sunset. Totality ended at [5 h. 32 m. P.M. - 4 m. (Long.) =] 5 h. 28 m. P.M., so that at Śrinagar the eclipse was total for twenty minutes after sunset.

4. Eclipse of November 25, A.D. 364. This began at Lanka 23.8, or 5 h. 8 m. A.M., mean time on 26th (civil reckoning); + 10 m. for apparent time (*Table F.*), 5 h. 18 m. A.M. It was therefore visible at Lanka for 42 m. before sunrise. But at Rangoon (Long: $96^{\circ} 17'$, diff. + 1 h. 22 m.) the eclipse began at, apparent time, 6 h. 40 m. A.M., while (*Table G.*) the sun rose (Lat. $16^{\circ} 46'$) at 6 h. 27 m. A.M. Here the eclipse was invisible.

ADDITIONS TO THE "INDIAN CALENDAR."

NUMERALS EXPRESSED BY WORDS.

DATES in Indian inscriptions are often expressed by words, each word representing a numeral, and selected for that purpose according to its meaning. Thus, *bhû* or *chandra* stood for the figure 1, since all the world knows that there is only one earth or one moon. Similarly *paksha* "wing", or *akshi* "eye", conveyed at once the idea of two; *trijagat*, the "three worlds", three; *Pāṇḍava*, five; *avatāra*, ten; and so on. Extending the system with considerable ingenuity, a large number of figures were represented.

The commoner words are given in the enclosed list; which contains, first, the words given by Burnell (*Br.*) in his *South-Indian Palæography*, including those mentioned by Al-Bîrûnî and C. P. Brown, then those added by Dr. Bühler (*Bh.*) (*Grundriss der Indo-Arischen Philologie und Altertumskunde, Indische Palæographie*, pp. 80, 81), lastly some supplied to me by Professor Kielhorn. (*K.*)

Units are generally written first, then tens, hundreds, and thousands. Thus *Rishi-nâga-kh-endu-sainvatsara* is the year 1087, *guṇa-śâstra-kh-endu-gaṇita sainvatsara* is 1063. 7 8 0 1
3 6 0 1

0. (*Br.*) Abhra, âkâśa, ambara, ananta, gagana, kha, śûnya, viyat, vyoman. (*K.*) Dyu, nabhas, vindu, Vishṇupada.

1. (*Br.*) Âdi, bhû, chandra, dharâ, dharaṇî, indu, kshiti, kshmâ, nâyaka, pitâmaha, prithivî, raśmi, rūpa, śaśânka, śaśin, śîtâmśu, soma, tanu, urvarâ, vasudhâ. (*Bh.*) Mâhî, Sitarâśmi. (*K.*) Atrinayanaja, avani, chandramas, dhâtrî, jagatî, kshapeśvara, kshaunî, kshonî, ku, mṛigânka, sudhâmśu, vasumatî, vidhu.

2. (*Br.*) Akshi, Aśvin, bâhu, Dasra, dṛishti, kara, karṇa, kuṭumba, lochana, netra, paksha, ravichandrau, Yama, yamala. (*Bh.*) Nayana. (*K.*) Chakshus.

3. (*Br.*) Agni, dahana, guṇa, hutâśana, jvalana, loka, pâvaka, Râma, sahodara, śikhin, tapana, tri, trigata, triguṇa, trijagat, trikâla, trilochana, trinetra, vahni, vaiśvânara. (*Bh.*) Hotṛi. (*K.*) Anala, Haranayana, śakti, udarchis, veda, viśṭapa.

4. (*Br.*) Abdhi, bandhu, dadhi (?), diś, jalanidhi, jalâśaya, kosht̥ha, kṛita, sâgara, samudra, udadhi, veda, yuga. (*Bh.*) Aya or âyâ, śruti, jala, jaladhi. (*K.*) Ambhōdhi, ambudhi, amburâśi, arṇava, Chaturânanavadana, vanadhi, vâridhi, vârinidhi, sindhu.

5. (*Br.*) Artha, bhûta, indriya, ishû, kalâmba, mârṅga, Pāṇḍava, prâṇa, putra, ratna, śara, sâyaka, suta, tata, vâṇa, viśikha. (*Bh.*) Bâṇa, vishaya. (*K.*) Tryakshamukha.

6. (Br.) Aṅga, ari, darśana, māsārdha, mata, rāga, rasa, ṛitu, śāstra, tarka. (Bl.) Kāya.
7. (Br.) Adri, aga, aśva, Atri, chhapdas, dhātu, kalatra, mahādhara, muni, naga, parvata, ṛishi, śaila, svara. (Bl.) Dhī. (K.) Giri, haya, loka, pātāla, sagara, sāgara, turāṅgama.
8. (Br.) Ahi, bhūti, dantin, gaja, ibha, maṅgala, nāga, sarpa, vasu. (Bl.) Anuṣṭubh, siddhi. (K.) Mūrti, naga, tanu.
9. (Br.) Aṅka, antara, chhidra, dvāra, go, graha, nanda, nidhi, pavana, randhra. (K.) Crahagaṇa, nidhāna.
10. (Br.) Āsā, avatāra, diś, karman, Rāvaṇaśiras.
11. (Br.) Akshauhiṇī, Īśvara, lābha, Mahādeva, Rudra. (Bl.) Īśa, Śiva. (K.) Bhava.
12. (Br.) Āditya, arka, bhānu, māsa, sahasrāṁśu, sūrya, vyaya. (K.) Dyumaṇi.
13. (Br.) Kāma, Kāmadeva, Manmatha, viśva. (Bl.) Aghosha, atijagatī.
14. (Br.) Indra, Manu, loka. (K.) Amarendra, pūrva, ratna.
15. (Br.) Ahaṇ, paksha, tithi.
16. (Br.) Asṭi, bhūpa, kalā, nṛipa.
17. (Br.) Atyasṭi.
18. (Br.) Dhṛiti.
19. (Br.) Atidhṛiti.
20. (Br.) Kṛiti, nakha.
21. (Br.) Svarga, utkṛiti.
22. (Br.) Jāti.
24. (Br.) Jina.
25. (Br.) Tattva.
26. (Br.) Utkṛiti.

The following are said to occur only in documents of late date. (Br.)

27. (Br.) Nakshatra. (Bl.) Bhaṣamūha.
32. (Br.) Danta, Rada.
33. (Br.) Deva. (Bl.) sura.
34. (Br.) Tāna.
40. (Br.) Naraka.
49. (Br.) Tāna.

NUMERALS EXPRESSED BY LETTERS OR SYLLABLES.

[Dr. Burnell's *South-Indian Palaeography* pp. 65, 79; So, from which most of this note is taken; Dr. Bühler's *Grundriss der Indo-Arischen Philologie und Altertumskunde, Indische Palaeographie*, pp. 82, 83; *Indian Antiquary*, II, pp. 361—2.]

A system of notation by which numerals are expressed by letters of the alphabet is often called the *Katipayādi* method, from *katipaya*, "a certain number", "so many".

Three systems are known.

A. *The system of Āryabhaṭṭa*, which he used in his treatises on astronomy, but which does not appear to have been adopted by any other writer, or in inscriptions. It is unnecessary to go into this. Professor Kern has edited Āryabhaṭṭa's text.

k	kh	g	gh	ñ	ch	chh	j	jh	ñ
1	2	3	4	5	6	7	8	9	0

t	th	d	dh	n	t	th	d	dh	n
1	2	3	4	5	6	7	8	9	0

p	ph	b	bh	m
1	2	3	4	5

y	r	l	v	s	sh	s	h	!
1	2	3	4	5	6	7	8	9

By this system dates may be expressed in words having a connected meaning, and it closely resembles the Semitic system so often used by the Muhammadans. It is also used in Southern India as a *memoria technica* for the contents of the Vedas.

C. *The letter systems.* There are several of these, mostly used for marking the pages and palm-leaves of MSS. They are in use in Burmah and Ceylon as well as in India.

(a) According to one system the consonants, with the short *a* vowel added to each, are used in order for representing the numerals 1 to 34; then the series is repeated with long *â*, giving numbers to 68; and so on with the twelve vowels. The series runs—*ka, kha, ga, gha,*

1 2 3 4

na, cha, etc. *la kâ, khâ, gâ, ghâ, nâ, châ*, etc.
5 6 34 35 36 37 38 39 40
lâ, ki, etc.—and goes as far as $(12 \times 34 =) 408$.
68 69

(b) Dr. Bühler states that he has found another system in use in the Burmese Pāli MSS. in the Royal Library at Vienna. Here the twelve vowels in order are first used with the first consonant *k*, then with the second consonant *kh*, and so on. This series runs therefore thus;—
ka, kâ, ki, kî, ku, etc. *kah, kha, khâ, khi, khî, khu,* etc., and
 1 2 3 4 5 12 13 14 15 16 17
goes, like the former, as far as 408. In Singhalese books this system is also sometimes adopted, but in that case it includes the southern semi-vowels *r, r̄, l, l̄*, which gives sixteen

vowels to each consonant and enables the series to run as far as $(16 \times 34 =) 544$. This results, of course, in the letters having a different value from those of the former system; e.g., $kâ$ in the first (a) system = 35, in the second (b) system = 2.

Dr. Bühler states that in Siam and Ceylon there are instances of this last system being prolonged, after the exhaustion of all the syllables ending with lah ($= 408$ or 544 as the case may be), by a repetition of the whole system; noted as 2 ka , 2 $kâ$, 2 ki , 2 $kî$, etc. which would enable numerals to be represented to any extent.

These methods are convenient as numerals for arranging papers or pages in order, but are manifestly useless for simple notation. Thus, if a loose page is picked up bearing the syllable $mû$, it can at once be put in its proper place; but no one could say without reference to a table what actual number $mû$ represents.

Numbers in India are often abridged, as in England. We say for instance of the pages of a book "21-2", "243-4". This must not be lost sight of, even in the matter of inscriptions and their dates, remembering that in Europe there is sometimes a similar abbreviation. People speak of the year "ninety-eight", meaning "1798".

There is a system in use in Nepâl and amongst the Jains of N. India where syllables are used in an apparently arbitrary manner, but it is not known in the south. Dr. Burnell treats of this in his "*South-Indian Palæography*" (p. 65). The series is used for numbering pages of books, but I am not aware whether it has ever been employed for chronological purposes.

DETERMINATION OF NAKSHATRAS AND YOGAS.

[See *Ind. Calendar*, Arts. 133, 158, 159, pp. 64-65, 97-98.]

Dr. Schram proposes, in the *Indian Antiquary* for October 1896 (pp. 287-288), a simplification of the method employed by us for the determination of *nakshatras* and *yogas*.

He gives the following table by which (n), the *nakshatra*-index, and (y) the *yoga*-index may be found at once from the figures for (t) and (c); thus $(n) = (t) + (s)$. Take down (t), and find (s) from the table given below, by observing the figure given for (c). In the example given by us in Art. 158 we have $(t) = 1463$, $(c) = 439$. From the first column of the following table, observing the difference between consecutive values of (s) (cols. 2, 3) and using the auxiliary table, (s) is found to be 1559. Add (t) to (s) and we have $3022 = (n)$. $(y) = (s) + (n)$ (Art. 133), and both these quantities are found from the table.

This table may be styled Table VII A of the "*Indian Calendar*". It is reprinted by kind permission of the author, and of the editor of the "*Indian Antiquary*".

TABLE VII A.

Arg. c.	s.	Diff.	Arg. c.	s.	Diff.	Arg. c.	s.	Diff.	Arg. c.	s.	Diff.
0	7147	103	250	9707	100	500	2147	96	750	4586	100
10	7250	104	260	9807	100	510	2243	96	760	4686	101
20	7354	104	270	9907	99	520	2339	96	770	4787	100
30	7458	104	280	6	99	530	2435	96	780	4887	101
40	7562	104	290	105	99	540	2531	97	790	4988	101
50	7666	103	300	204	99	550	2628	96	800	5089	101
60	7769	104	310	303	98	560	2724	97	810	5190	102
70	7873	103	320	401	99	570	2821	96	820	5292	102
80	7976	103	330	500	98	580	2917	97	830	5394	101
90	8079	103	340	598	98	590	3014	97	840	5495	103
100	8182	103	350	696	97	600	3111	97	850	5598	102
110	8285	103	360	793	98	610	3208	97	860	5700	102
120	8388	103	370	891	97	620	3305	97	870	5802	103
130	8491	102	380	988	97	630	3402	98	880	5905	103
140	8593	103	390	1085	97	640	3500	98	890	6008	103
150	8696	102	400	1182	97	650	3598	97	900	6111	103
160	8798	102	410	1279	97	660	3695	99	910	6214	103
170	8900	101	420	1376	97	670	3794	98	920	6317	104
180	9001	102	430	1473	96	680	3892	98	930	6421	103
190	9103	101	440	1569	97	690	3990	99	940	6524	104
200	9204	101	450	1666	96	700	4089	99	950	6628	103
210	9305	101	460	1762	96	710	4188	99	960	6731	104
220	9406	101	470	1858	96	720	4287	100	970	6835	104
230	9507	100	480	1954	96	730	4387	99	980	6939	104
240	9607	100	490	2050	97	740	4486	100	990	7043	104
250	9707		500	2147		750	4586		1000	7147	

AUXILIARY TABLE.

Diff. of s.	Last figure of Argument c.								
	1	2	3	4	5	6	7	8	9
	Add.								
104	10	21	31	42	52	62	73	83	94
103	10	21	31	41	52	62	72	82	93
102	10	20	31	41	51	61	71	82	92
101	10	20	30	40	51	61	71	81	91
100	10	20	30	40	50	60	70	80	90
99	10	20	30	40	50	59	69	79	89
98	10	20	29	39	49	59	69	78	88
97	10	19	29	39	49	58	68	78	87
96	10	19	29	38	48	58	67	77	86

ADDITION TO THE "INDIAN CALENDAR" TABLE I.

The commencement of the luni-solar year (cols. 19 to 25) throughout Table I of the "Indian Calendar" was calculated for the system of true intercalations of months (cols. 8 to 12). The use of the mean system of intercalations (cols. 8*a* to 12*a*) will, in years following those where an intercalation has taken place by the mean system but not by the true system, throw the initial date a month later than that given in cols. 19 to 25. In such years the invariable intercalation of a month by the true system, when none takes place by the mean system, brings the initial dates under both systems together again in the third year. The following is a list of initial dates (cols. 19 to 25) to be substituted for the present entries in Table I in the years mentioned, *when the mean system of intercalation of months* (cols. 8*a* to 12*a*) *is used*.

The figures already given in Table I, however, may equally well be used if care is taken to remember the number of the month. Thus—suppose that it is necessary to ascertain a date in Chaitra of Kali 3412, where the mean system of intercalations was used. Noting that the month was called "Vaiśākha I" under the "true" system, the calculation may be made for Vaiśākha I, using the figures already given in Table I.

I. CONCURRENT YEAR.		III. COMMENCEMENT OF THE LUNI-SOLAR YEAR. (Civil day of Chaitra Śukla 1st.)						
Kali.	A. D.	Day and Month A. D.	Week day.	Moon's age.		<i>a.</i>	<i>b.</i>	<i>c.</i>
				Lunat. parts elapsed. (<i>z</i>)	Tithis elapsed.			
1	5	19	20	21	22	23	24	25
3412	310-11	18 Mar. (77).....	0 Sat.....	58	·174	52	795	282
3431	329-30	18 Mar. (77).....	3 Tues.....	180	·540	157	659	282
3450	*348-49	17 Mar. (77).....	5 Thur.....	78	·234	9924	486	279
3458	*356-57	19 Mar. (79).....	3 Tues.....	141	·423	84	602	285
3477	375-76	19 Mar. (78).....	5 Thur.....	52	·156	9851	430	282
3496	394-95	19 Mar. (78).....	1 Sun.....	232	·696	9956	293	282
3515	413-14	19 Mar. (78).....	4 Wed.....	319	·957	62	157	283
3526	*424-25	17 Mar. (77).....	2 Mon.....	69	·207	8	904	278
3534	*432-33	19 Mar. (79).....	0 Sat.....	327	·981	168	20	283
3553	451-52	20 Mar. (79).....	3 Tues.....	320	·960	273	884	283
3572	470-71	19 Mar. (78).....	5 Thur.....	45	·135	40	711	281
3580	478-79	21 Mar. (80).....	3 Tues.....	218	·654	200	828	286
3591	489-90	19 Mar. (78).....	1 Sun.....	223	·669	146	575	281
3599	497-98	21 Mar. (80).....	6 Fri.....	318	·954	306	691	286
3618	*516-17	20 Mar. (80).....	1 Sun.....	196	·588	72	519	284
3637	535-36	20 Mar. (79).....	3 Tues.....	95	·285	9839	346	281
3656	554-55	20 Mar. (79).....	6 Fri.....	222	·666	9945	210	281
3675	573-74	20 Mar. (79).....	2 Mon.....	250	·750	51	73	282
3694	*592-93	20 Mar. (80).....	5 Thur.....	243	·729	156	937	282
3702	*600-1	21 Mar. (81).....	2 Mon.....	133	·399	9977	17	284

I. CONCURRENT YEAR.		III. COMMENCEMENT OF THE LUNI-SOLAR YEAR. (Civil day of Chaitra Śukla 1st.)						
Kali.	A. D.	Day and Month A. D.	Week day.	Moon's age.		a.	b.	c.
				Lunat. parts elapsed. (z)	Tithis elapsed.			
1	5	19	20	21	22	23	24	25
3713	611-12	21 Mar. (80).....	1 Sun.....	270	·810	262	800	282
3721	619-20	22 Mar. (81).....	5 Thur.....	129	·387	83	881	285
3732	630-31	20 Mar. (79).....	3 Tues.....	69	·207	29	628	279
3740	638-39	22 Mar. (81).....	1 Sun.....	190	·570	189	744	285
3759	657-58	21 Mar. (80).....	3 Tues.....	37	·111	9956	571	282
3778	*676-77	21 Mar. (81).....	6 Fri.....	258	·774	61	435	282
3797	695-96	21 Mar. (80).....	1 Sun.....	109	·327	9828	262	280
3816	714-15	21 Mar. (80).....	4 Wed.....	175	·525	9934	126	280
3835	733-34	21 Mar. (80).....	0 Sat.....	170	·510	39	989	280
3843	741-42	22 Mar. (81).....	4 Wed.....	61	·183	9860	70	283
3854	*752-53	21 Mar. (81).....	3 Tues.....	175	·525	145	853	281
3862	*760-61	22 Mar. (82).....	0 Sat.....	49	·147	9906	933	283
3873	771-72	22 Mar. (81).....	6 Fri.....	254	·762	250	717	281
3881	779-80	23 Mar. (82).....	3 Tues.....	79	·237	72	797	283
3900	798-99	23 Mar. (82).....	6 Fri.....	200	·600	177	660	284
3919	817-18	22 Mar. (81).....	1 Sun.....	76	·288	9944	488	281
3938	*836-37	22 Mar. (82).....	4 Wed.....	303	·909	50	351	281
3957	855-56	22 Mar. (81).....	6 Fri.....	85	·255	9817	179	279
3965	863-64	24 Mar. (83).....	4 Wed.....	252	·756	9977	295	284
3976	874-75	22 Mar. (81).....	2 Mon.....	100	·300	9922	42	279
3984	882-83	23 Mar. (82).....	6 Fri.....	☉-19	-57	9743	122	282
3995	893-94	22 Mar. (81).....	5 Thur.....	91	273	28	906	279
4003	901-2	23 Mar. (82).....	2 Mon.....	☉-23	-69	9849	986	282
4014	*912-13	22 Mar. (82).....	1 Sun.....	136	·408	134	769	280
4022	*920-21	23 Mar. (83).....	5 Thur.....	☉-17	-51	9955	850	282
4041	939-40	24 Mar. (83).....	1 Sun.....	65	·195	60	713	282
4060	958-59	24 Mar. (83).....	4 Wed.....	241	·723	166	577	283
4079	977-78	23 Mar. (82).....	6 Fri.....	160	·480	9933	404	280
4098	*996-97	23 Mar. (83).....	2 Mon.....	318	·954	38	268	280
4106	*1004-5	24 Mar. (84).....	6 Fri.....	115	·345	9860	348	283
4117	1015-16	23 Mar. (82).....	4 Wed.....	25	·75	9805	95	278
4125	1023-24	25 Mar. (84).....	2 Mon.....	242	·726	9965	211	283
4136	1035-35	23 Mar. (82).....	0 Sat.....	15	·45	9911	958	278
4144	1042-43	25 Mar. (84).....	5 Thur.....	276	·828	71	75	283
4155	1053-54	23 Mar. (82).....	3 Tues.....	32	·96	17	822	278
4163	1061-62	25 Mar. (84).....	1 Sun.....	264	·792	176	939	283
4182	*1080-81	25 Mar. (85).....	4 Wed.....	290	·870	282	802	284
4201	1099-1100	25 Mar. (84).....	6 Fri.....	89	·267	49	629	281

TABLE E.

A. D. Year, Month, and Day.	Hindu Month and Current Śaka Year. ["w. m. i." = with mean intercalations.]	Time measured from Lāṅka mean sunrise, taken as 6 A. M.						Number of twelfths eclipsed. ["t." = total eclipse.]
		Greatest phase. [i.e. moment of full moon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.		
				Begin- ning.	End.			
							h. m.	
1	2	3	4	5	6	7	8	
300 May 20 Mon.	Jyeshtha..... 223	9 56	8 5	9 6	10 46	11 47	t.	
300 Nov. 13 Wed.	Mārgaśīrsha..... 223	10 34	8 47	9 53	11 15	12 21	t.	
301 May 9 Fri.	Jyeshtha..... 224	10 41	9 44	—	—	11 38	3·1	
301 Nov. 3 Mon.	Kārttika, (w. m. i.) Mārgaśīrsha..... 224	1 3	0 42	—	—	1 24	0·4	
303 Mar. 19 Fri.	Chaitra..... 226	20 52	19 6	20 16	21 28	22 38	t.	
303 Sept. 12 Sun.	Āsvina..... 226	18 13	16 34	18 6	18 20	19 52	t.	
304 Mar. 8 Wed.	Chaitra..... 227	13 28	11 43	12 54	14 2	15 13	t.	
304 Aug. 31 Thur.	Bhādrapada, (w. m. i.) Bhādrapada II.... 227	19 50	18 3	19 10	20 30	21 37	t.	
305 Aug. 21 Tues.	Bhādrapada..... 228	4 27	4 4	—	—	4 50	0·5	
306 July 12 Fri.	Śrāvaṇa..... 229	12 8	11 4	—	—	13 12	4·0	
307 Jan. 5 Sun.	Māgha..... 229	15 40	13 56	15 9	16 11	17 24	t.	
307 July 2 Wed.	Āshāḍha..... 230	4 30	2 39	3 40	5 20	6 21	t.	
307 Dec. 25 Thur.	Pauṣa..... 230	18 52	17 7	18 18	19 26	20 37	t.	
308 June 20 Sun.	Āshāḍha..... 231	15 58	14 34	—	—	17 22	7·6	
308 Dec. 14 Tues.	Pauṣa..... 231	5 16	4 55	—	—	5 37	0·4	
310 Apr. 30 Sun.	Vaiśākha II, (w. m. i.) Vaiśākha..... 233	7 2	5 31	—	—	8 33	9·2	
310 Oct. 24 Tues.	Kārttika..... 233	23 8	21 24	22 38	23 38	24 52	t.	
311 Apr. 19 Thur.	Vaiśākha..... 234	14 37	12 47	13 50	15 24	16 27	t.	
311 Oct. 14 Sun.	Kārttika..... 234	6 10	4 24	5 34	6 46	7 56	t.	
312 Apr. 8 Tues.	Vaiśākha..... 235	4 47	3 57	—	—	5 37	2·4	
313 Feb. 27 Fri.	Phālguna..... 235	12 56	12 17	—	—	13 35	1·4	
314 Feb. 16 Tues.	Phālguna..... 236	24 46	22 59	24 4	25 28	26 33	t.	
314 Aug. 12 Thur.	Bhādrapada..... 237	3 29	1 43	2 54	4 4	5 15	t.	
315 Feb. 6 Sun.	Phālguna..... 237	5 20	3 41	—	—	6 59	11·9	
315 Aug. 1 Mon.	Śrāvaṇa..... 238	19 27	17 42	18 54	20 0	21 12	t.	
317 June 11 Tues.	Āshāḍha..... 240	13 35	12 19	—	—	14 51	6·0	
317 Dec. 5 Thur.	Pauṣa..... 240	3 56	2 11	3 22	4 30	5 41	t.	
318 May 31 Sat.	Jyeshtha..... 241	16 18	14 26	15 26	17 10	18 10	t.	
318 Nov. 24 Mon.	Mārgaśīrsha..... 241	19 29	17 42	18 48	20 10	21 16	t.	
319 May 20 Wed.	Jyeshtha..... 242	17 14	16 4	—	—	18 24	4·8	
319 Nov. 14 Sat.	Mārgaśīrsha..... 242	9 43	9 20	—	—	10 6	0·5	
321 Mar. 30 Thur.	Chaitra..... 244	4 48	3 4	4 17	5 19	6 32	t.	
321 Sept. 22 Fri.	Āsvina..... 244	25 33	23 56	—	—	27 10	11·3	
322 Mar. 19 Mon.	Chaitra..... 245	21 27	19 41	20 49	22 5	23 13	t.	
322 Sept. 12 Wed.	Āsvina..... 245	3 19	1 31	2 36	4 2	5 7	t.	
323 Sept. 1 Sun.	Bhādrapada, (w. m. i.) Bhādrapada II.... 246	12 17	11 37	—	—	12 57	1·5	
324 July 22 Wed.	Śrāvaṇa..... 247	19 43	18 51	—	—	20 35	2·6	
325 Jan. 15 Fri.	Māgha..... 247	23 35	21 52	23 7	24 3	25 18	t.	
325 July 12 Mon.	Śrāvaṇa..... 248	11 51	10 1	11 3	12 39	13 41	t.	
326 Jan. 5 Wed.	Māgha..... 248	3 14	1 29	2 39	3 49	4 59	t.	
326 July 1 Fri.	Āshāḍha..... 249	22 53	21 22	—	—	24 24	9·2	
326 Dec. 25 Sun.	Pauṣa..... 249	14 4	13 38	—	—	14 30	0·6	
328 May 10 Fri.	Jyeshtha..... 251	13 43	12 24	—	—	15 12	7·6	
328 Nov. 4 Mon.	Mārgaśīrsha..... 251	7 40	5 57	7 14	8 6	9 23	t.	
329 Apr. 29 Tues.	Vaiśākha II, (w. m. i.) Vaiśākha..... 252	21 55	20 4	21 5	22 45	23 46	t.	
329 Oct. 24 Fri.	Kārttika..... 252	14 15	12 29	13 38	14 52	16 1	t.	
330 Apr. 19 Sun.	Vaiśākha..... 253	12 27	11 25	—	—	13 29	3·8	
331 Mar. 10 Wed.	Chaitra..... 254	21 1	20 38	—	—	21 24	0·5	
332 Feb. 28 Mon.	Phālguna..... 254	8 40	6 54	8 2	9 18	10 26	t.	
332 Aug. 22 Tues.	Bhādrapada..... 255	11 18	9 35	10 50	11 46	13 1	t.	

TABLE E.

A. D. Year, Month, and Day.	Hindu Month and Current Śaka Year. ["v. m. i." = with mean intercalations.]	Time measured from Lāṅka mean sunrise, taken as 6 A. M.					Number of twelfths eclipsed. ["t." = total eclipse.]
		Greatest phase. [i.e. moment of fullmoon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.	
				Begin- ning.	End.		
1	2	3	4	5	6	7	8
333 Feb. 16 Fri.	Phālguna..... 255	12 59	11 19	12 43	13 15	14 39	t.
333 Aug. 12 Sun.	Bhādrapada 256	3 17	1 30	2 38	3 56	5 4	t.
335 June 22 Sun.	Āshāḍha 258	20 18	19 13	—	—	21 23	4·1
335 Dec. 16 Tues.	Pausha 258	12 51	11 6	12 17	13 25	14 36	t.
336 June 10 Thur.	Ashāḍha 259	22 40	20 49	21 50	23 30	24 31	t.
336 Dec. 5 Sun.	Pausha..... 259	4 25	2 38	3 44	5 6	6 12	t.
337 May 30 Mon.	Jyeshtha II, (v. m. i.) Jyeshtha..... 260	23 46	22 25	—	—	25 7	7·0
337 Nov. 24 Thur.	Mārgaśīrsha 260	18 27	18 6	—	—	18 48	0·4
339 Apr. 10 Tues.	Vaiśākha..... 262	12 36	10 54	12 14	12 58	14 18	t.
339 Oct. 4 Thur.	Āśvina II, (v. m. i.) Kārttika..... 262	9 8	7 33	—	—	10 43	10·6
340 Mar. 30 Sun.	Chaitra..... 263	5 22	3 34	4 40	6 4	7 10	t.
340 Sept. 22 Mon.	Āśvina 263	11 6	9 16	10 20	11 52	12 56	t.
341 Sept. 11 Fri.	Āśvina 264	20 17	19 26	—	—	21 8	2·5
342 Aug. 3 Tues.	Śrāvapa II, (v. m. i.) Bhādrapada I 265	3 29	2 50	—	—	4 8	1·4
343 Jan. 27 Thur.	Māgha..... 265	7 32	5 50	7 8	7 56	9 14	t.
343 July 23 Sat.	Śrāvapa..... 266	19 17	17 28	18 34	20 0	21 6	t.
344 Jan. 16 Mon.	Māgha 266	11 38	9 52	11 2	12 14	13 24	t.
344 July 12 Thur.	Śrāvapa..... 267	5 51	4 15	—	—	7 27	11·0
345 Jan. 4 Fri.	Māgha 267	22 48	22 22	—	—	23 14	0·6
346 May 21 Wed.	Jyeshtha..... 269	20 31	19 16	—	—	21 46	5·8
346 Nov. 15 Sat.	Mārgaśīrsha 269	16 12	14 30	15 48	16 36	17 54	t.
347 May 11 Mon.	Jyeshtha 270	5 10	3 18	4 19	6 1	7 2	t.
347 Nov. 4 Wed.	Mārgaśīrsha 270	22 22	20 36	21 44	23 0	24 8	t.
348 Apr. 29 Fri.	Vaiśākha..... 271	20 4	18 51	—	—	21 17	5·4
350 Mar. 10 Sat.	Chaitra..... 273	16 25	14 40	15 51	16 59	18 10	t.
350 Sept. 2 Sun.	Bhādrapada II, (v. m. i.) Āśvina I..... 273	19 13	17 32	18 54	19 32	20 54	t.
351 Feb. 27 Wed.	Phālguna..... 273	20 27	18 44	20 2	20 52	22 10	t.
351 Aug. 23 Fri.	Bhādrapada..... 274	11 15	9 27	10 32	11 58	13 3	t.
352 Aug. 12 Wed.	Bhādrapada..... 275	3 27	3 1	—	—	3 53	0·6
353 July 3 Sat.	Āshāḍha II..... 276	3 2	2 14	—	—	3 50	2·2
353 Dec. 26 Sun.	Pausha..... 276	21 41	19 56	21 8	22 14	23 26	t.
354 June 22 Wed.	Āshāḍha 277	5 4	3 14	4 16	5 52	6 54	t.
354 Dec. 16 Fri.	Pausha..... 277	13 21	11 34	12 40	14 2	15 8	t.
355 June 11 Sun.	Āshāḍha..... 278	6 20	4 51	—	—	7 49	8·7
355 Dec. 6 Wed.	Pausha..... 278	3 10	2 49	—	—	3 31	0·4
357 Apr. 20 Sun.	Vaiśākha..... 280	20 20	18 42	—	—	21 58	11·6
357 Oct. 14 Tues.	Kārttika..... 280	16 50	15 17	—	—	18 23	10·1
358 Apr. 10 Fri.	Vaiśākha..... 281	13 8	11 18	12 21	13 55	14 58	t.
358 Oct. 3 Sat.	Āśvina II, (v. m. i.) Kārttika..... 281	19 1	17 11	18 14	19 48	20 51	t.
359 Mar. 31 Wed.	Chaitra..... 282	2 11	1 50	—	—	2 32	0·4
359 Sept. 23 Thur.	Āśvina..... 282	4 23	3 25	—	—	5 21	3·2
361 Feb. 6 Tues.	Phālguna..... 283	15 14	13 33	14 54	15 34	16 55	t.
361 Aug. 3 Fri.	Śrāvapa, (v. m. i.) Śrāvapa II 284	2 47	1 1	2 9	3 25	4 33	t.
362 Jan. 26 Sat.	Māgha..... 284	19 54	18 8	19 16	20 32	21 40	t.
362 July 23 Tues.	Śrāvapa 285	12 51	11 11	12 39	13 3	14 31	t.
363 Jan. 16 Thur.	Māgha..... 285	7 31	7 0	—	—	8 2	0·9
364 June 1 Tues.	Jyeshtha II, (v. m. i.) Jyeshtha..... 287	3 12	2 8	—	—	4 16	4·0
364 Nov. 25 Thur.	Mārgaśīrsha..... 287	24 50	23 8	24 26	25 14	26 32	t.
365 May 21 Sat.	Jyeshtha..... 288	12 21	10 29	11 29	13 13	14 13	t.
365 Nov. 15 Tues.	Mārgaśīrsha..... 288	6 30	4 44	5 52	7 8	8 16	t.

TABLE E.

A.D. Year, Month, and Day.	Hindu Month and Current Śaka Year. ["w. m. i." = with mean intercalations.]	Time measured from Lanka mean sunrise, taken as 6 A.M.						Number of twelfths eclipsed. ["t." = total eclipse.]
		Greatest phase. [i.e. moment of full moon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.		
				Begin- ning.	End.			
							h. m.	
1	2	3	4	5	6	7	8	
366 May 11 Thur.	Jyeshtha 289	3 32	2 12	—	—	4 52	6.9	
366 Nov. 4 Sat.	Mārgaśīrsha 289	6 15	6 0	—	—	6 30	0.2	
368 Mar. 20 Thur.	Chaitra 291	23 53	22 10	23 28	24 18	25 36	t.	
368 Sept. 13 Sat.	Āśvina 291	3 21	1 42	—	—	5 0	11.9	
369 Mar. 10 Tues.	Chaitra 292	3 44	1 59	3 10	4 18	5 29	t.	
369 Sept. 2 Wed.	Bhādrapada, (w. m. i.) Āśvina I. 292	19 18	17 28	18 32	20 4	21 8	t.	
370 Aug. 23 Mon.	Bhādrapada 293	11 12	10 29	—	—	11 55	1.7	
371 July 14 Thur.	Śrāvaṇa 294	9 48	9 27	—	—	10 9	0.4	
372 Jan. 7 Sat.	Māgha 294	6 31	4 47	5 59	7 3	8 15	t.	
372 July 2 Mon.	Āshāḍha II, (w. m. i.) Āshāḍha 295	11 30	9 42	10 47	12 13	13 18	t.	
372 Dec. 26 Wed.	Pauṣa 295	22 14	20 27	21 32	22 56	24 1	t.	
373 June 21 Fri.	Āshāḍha 296	12 55	11 20	—	—	14 30	10.7	
373 Dec. 16 Mon.	Pauṣa 296	11 53	11 32	—	—	12 14	0.4	
375 May 2 Sat.	Vaiśākha II, (w. m. i.) Vaiśākha 298	3 59	2 26	—	—	5 32	10.0	
375 Oct. 25 Sun.	Kārttika 298	24 40	23 8	—	—	26 12	9.7	
376 Apr. 20 Wed.	Vaiśākha 299	20 45	18 55	19 56	21 34	22 35	t.	
376 Oct. 14 Fri.	Kārttika 299	2 58	1 8	2 9	3 47	4 48	t.	
377 Apr. 10 Mon.	Vaiśākha 300	9 35	8 53	—	—	10 17	1.6	
377 Oct. 3 Tues.	Āśvina, (w. m. i.) Kārttika 300	12 39	11 36	—	—	13 42	3.9	
379 Feb. 17 Sun.	Phālguna 301	22 53	21 14	22 46	23 0	24 32	t.	
379 Aug. 14 Wed.	Bhādrapada 302	10 23	8 39	9 52	10 54	12 7	t.	
380 Feb. 7 Fri.	Phālguna 302	4 2	2 15	3 22	4 42	5 40	t.	
380 Aug. 2 Sun.	Śrāvaṇa, (w. m. i.) Śrāvaṇa II. 303	19 47	18 3	19 18	20 16	21 31	t.	
381 Jan. 26 Tues.	Māgha 303	16 6	15 28	—	—	16 44	1.3	
382 June 12 Sun.	Āshāḍha 305	9 52	9 4	—	—	10 40	2.2	
382 Dec. 7 Wed.	Pauṣa 305	9 24	7 42	9 3	9 45	11 6	t.	
383 June 1 Thur.	Jyeshtha II, (w. m. i.) Jyeshtha 306	19 34	17 43	18 44	20 24	21 25	t.	
383 Nov. 26 Sun.	Mārgaśīrsha 306	14 41	12 54	14 2	15 20	16 28	t.	
384 May 21 Tues.	Jyeshtha 307	11 4	9 36	—	—	12 32	8.5	
384 Nov. 14 Thur.	Mārgaśīrsha 307	14 14	13 53	—	—	14 35	0.4	
386 Apr. 1 Wed.	Chaitra 309	7 18	5 38	7 8	7 28	8 58	t.	
386 Sept. 24 Thur.	Āśvina 309	11 38	10 1	—	—	13 15	11.2	
387 Mar. 21 Sun.	Chaitra 310	10 52	9 5	10 13	11 31	12 39	t.	
387 Sept. 14 Tues.	Āśvina 310	3 29	1 39	2 41	4 17	5 19	t.	
388 Sept. 2 Sat.	Bhādrapada, (w. m. i.) Āśvina I. 311	19 5	18 14	—	—	19 56	2.5	
390 Jan. 17 Thur.	Māgha 312	15 16	13 32	14 45	15 47	17 0	t.	
390 July 13 Sat.	Śrāvaṇa 313	18 1	16 16	17 26	18 36	19 46	t.	
391 Jan. 7 Tues.	Māgha 313	7 4	5 16	6 22	7 46	8 52	t.	
391 July 2 Wed.	Āshāḍha II, (w. m. i.) Āshāḍha 314	19 38	17 57	19 19	19 57	21 19	t.	
391 Dec. 27 Sat.	Pauṣa 314	20 31	20 13	—	—	20 49	0.3	
393 May 12 Thur.	Jyeshtha 316	11 31	10 2	—	—	13 0	8.7	
393 Nov. 5 Sat.	Mārgaśīrsha 316	8 39	7 8	—	—	10 10	9.4	
394 May 2 Tues.	Vaiśākha, II (w. m. i.) Vaiśākha 317	4 18	2 26	3 27	5 9	6 10	t.	
394 Oct. 25 Wed.	Kārttika 317	11 12	9 22	10 23	12 1	13 2	t.	
395 Apr. 21 Sat.	Vaiśākha 318	16 50	15 53	—	—	17 47	3.1	
395 Oct. 14 Sun.	Kārttika 318	21 7	20 2	—	—	22 12	4.2	
397 Feb. 28 Sat.	Phālguna 319	6 20	4 43	—	—	7 57	11.4	
397 Aug. 24 Mon.	Bhādrapada 320	18 4	16 23	17 45	18 23	19 45	t.	
398 Feb. 17 Wed.	Phālguna 320	12 6	10 18	11 24	12 43	13 54	t.	
398 Aug. 14 Sat.	Bhādrapada 321	2 58	1 12	2 21	3 35	4 44	t.	

TABLE E.

A. D. Year, Month, and Day.		Hindu Month and Current Śaka Yemr. ["w. m. i." = with mean intercalations.]		Time measured from Lauka mean sunrise, taken as 6 A. M.						Number of	
				Greatest phase. [i. e. moment of full moon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.	twelfths eclipsed.		
						Begin- ning.	End.			["t." = total eclipse.]	
											h. m.
1		2		3	4	5	6	7	8		
399	Feb. 6 Sun.	Phālguna.....	321	24 37	23 54	—	—	25 20	1·7		
400	June 22 Fri.	Āshāḍha.....	323	16 38	16 15	—	—	17 1	0·5		
400	Dec. 17 Mon.	Pausha.....	323	17 58	16 17	17 38	18 18	19 39	t.		
401	June 12 Wed.	Āshāḍha.....	324	2 48	0 58	2 0	3 36	4 38	t.		
401	Dec. 6 Fri.	Pausha.....	324	22 51	21 4	22 11	23 31	24 38	t.		
402	June 1 Sun.	Jyeshtha II, (w. m. i.) Jyeshtha.....	325	18 32	16 58	—	—	20 6	10·3		
402	Nov. 25 Tues.	Mārgaśīrsha.....	325	22 14	21 48	—	—	22 40	0·6		
404	Apr. 11 Mon.	Vaiśākha.....	327	14 32	12 56	—	—	16 8	10·9		
404	Oct. 4 Tues.	Kārttika I, (w. m. i.) Kārttika.....	327	19 59	18 23	—	—	21 35	10·9		
405	Mar 31 Fri.	Chaitra.....	328	17 50	16 1	17 6	18 34	19 39	t.		
405	Sept. 24 Sun.	Āśvina.....	328	11 53	10 3	11 4	12 42	13 43	t.		
406	Mar. 20 Tues.	Chaitra.....	329	17 59	17 26	—	—	18 32	1·0		
406	Sept. 14 Fri.	Āśvina.....	329	3 6	2 7	—	—	4 5	3·4		
408	Jan. 28 Tues.	Māgha.....	330	23 52	22 8	23 23	24 21	25 36	t.		
408	July 23 Thur.	Śrāvāṇa.....	331	24 31	22 49	23 8	24 54	26 13	t.		
409	Jan. 17 Sun.	Māgha.....	331	15 49	14 1	15 7	16 31	17 37	t.		
409	July 13 Tues.	Śrāvāṇa.....	332	2 21	0 36	1 48	2 54	4 6	t.		
410	Jan. 7 Fri.	Māgha.....	332	5 7	4 46	—	—	5 28	0·4		
411	May 23 Tues.	Jyeshtha.....	334	19 5	17 44	—	—	20 26	7·1		
411	Nov. 16 Thur.	Mārgaśīrsha.....	334	16 40	15 10	—	—	18 10	9·1		
412	May 12 Sun.	Jyeshtha.....	335	11 43	9 51	10 51	12 35	13 35	t.		
412	Nov. 4 Mon.	Mārgaśīrsha.....	335	19 29	17 39	18 40	20 18	21 19	t.		
413	May 1 Thur.	Vaiśākha II, (w. m. i.) Vaiśākha.....	336	23 55	22 48	—	—	25 2	4·5		
413	Oct. 25 Sat.	Kārttika.....	336	5 41	4 32	—	—	6 50	4·7		
415	Mar. 11 Thur.	Chaitra.....	338	13 48	12 14	—	—	15 22	10·3		
415	Sept. 5 Sun.	Bhādrapada II, (w. m. i.) Āśvina.....	338	1 51	0 13	—	—	3 29	11·7		
416	Feb. 28 Mon.	Phālguna.....	338	20 3	18 14	19 18	20 48	21 52	t.		
416	Aug. 24 Thur.	Bhādrapada.....	339	10 9	8 21	9 27	10 51	11 57	t.		
417	Feb. 17 Sat.	Phālguna.....	339	9 3	8 13	—	—	9 53	2·4		
418	Dec. 29 Sun.	Pausha.....	341	2 34	0 53	2 14	2 54	4 15	t.		
419	June 23 Mon.	Āshāḍha.....	342	10 1	8 12	9 17	10 45	11 50	t.		
419	Dec. 18 Thur.	Pausha.....	342	7 4	5 17	6 24	7 44	8 51	t.		
420	June 12 Sat.	Āshāḍha.....	343	2 0	0 21	—	—	3 39	11·9		
420	Dec. 6 Mon.	Pausha.....	343	6 19	5 49	—	—	6 49	0·8		
422	Apr. 22 Sat.	Vaiśākha.....	345	21 35	20 4	—	—	23 6	9·2		
422	Oct. 16 Mon.	Kārttika.....	345	4 30	2 56	—	—	6 4	10·3		
423	Apr. 11 Wed.	Vaiśākha.....	346	24 38	22 48	23 50	25 26	26 28	t.		
423	Oct. 5 Fri.	Āśvina II, (w. m. i.) Kārttika.....	346	20 22	18 31	19 32	21 12	22 13	t.		
424	Mar. 31 Mon.	Chaitra II, (w. m. i.) Chaitra.....	347	0 59	0 9	—	—	1 49	2·4		
424	Sept. 24 Wed.	Āśvina.....	347	11 17	10 13	—	—	12 21	4·0		
426	Feb. 8 Mon.	Phālguna.....	348	8 24	6 41	7 57	8 51	10 7	t.		
426	Aug. 4 Wed.	Śrāvāṇa II, (w. m. i.) Bhādrapada I.....	349	7 14	5 36	—	—	8 52	11·6		
427	Jan. 28 Fri.	Māgha.....	349	24 27	23 38	23 43	25 11	26 16	t.		
427	July 24 Sun.	Śrāvāṇa.....	350	9 12	7 25	8 32	9 52	10 59	t.		
428	Jan. 18 Wed.	Māgha.....	350	13 38	13 17	—	—	13 59	0·4		
428	July 12 Thur.	Śrāvāṇa.....	351	17 58	17 47	—	—	18 9	0·1		
429	June 3 Mon.	Jyeshtha II.....	352	2 33	1 20	—	—	3 46	5·5		
429	Nov. 26 Tues.	Mārgaśīrsha.....	352	24 46	23 16	—	—	26 16	9·1		
430	May 23 Fri.	Jyeshtha.....	353	19 6	17 14	18 15	19 57	20 58	t.		
430	Nov. 16 Sun.	Mārgaśīrsha.....	353	3 53	2 3	3 4	4 42	5 43	t.		

TABLE E.

A. D. Year, Month, and Day.	Hindu Month and Current Śaka Year. ["w. m. i." = with mean intercalations.]	Time measured from Lāṅkā mean sunrise, taken as 5 A. M.						Number of twelfths eclipsed. ["t." = total eclipse.]
		Greatest phase. [i.e. mo- ment of fullmoon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.		
				Begin- ning.	End.			
							h. m.	
1	2	3	4	5	6	7	8	
431 May 13 Wed.	Jyeshṭha 354	6 56	5 40	—	—	8 12	6·0	
431 Nov. 5 Thur.	Mārgaśīrsha 354	14 19	13 9	—	—	15 29	4·9	
433 Mar. 21 Tues.	Chaitra 356	20 58	19 27	—	—	22 29	9·3	
433 Sept. 15 Fri.	Āśvina 356	9 45	8 10	—	—	11 20	10·8	
434 Mar. 11 Sun.	Chaitra 357	3 50	2 0	3 2	4 38	5 40	t.	
434 Sept. 4 Tues.	Bhādrapada II, (w. m. i.) Āśvina 357	17 27	15 37	16 41	18 13	19 17	t.	
435 Feb. 28 Thur.	Phālguna 357	17 16	16 18	—	—	18 14	3·2	
435 Aug. 24 Sat.	Bhādrapada 358	18 49	18 18	—	—	19 20	0·9	
437 Jan. 8 Fri.	Māgha 359	10 58	9 17	10 41	11 15	12 39	t.	
437 July 3 Sat.	Āshāḍha II 360	17 17	15 31	16 40	17 54	19 3	t.	
437 Dec. 28 Tues.	Pausha 360	15 13	13 26	14 33	15 53	17 0	t.	
438 June 23 Thur.	Āshāḍha 361	9 30	7 47	9 4	9 56	11 13	t.	
438 Dec. 17 Sat.	Pausha 361	14 22	13 51	—	—	14 53	0·9	
440 May 3 Fri.	Jyeshṭha I, (w. m. i.) Vaiśākha 363	4 33	3 10	—	—	5 56	7·5	
440 Oct. 26 Sat.	Kārttika 363	13 8	11 34	—	—	14 42	10·2	
441 Apr. 22 Tues.	Vaiśākha 364	7 20	5 29	6 30	8 10	9 11	t.	
441 Oct. 16 Thur.	Kārttika 364	4 55	3 4	4 5	5 45	6 46	t.	
442 Apr. 11 Sat.	Vaiśākha 365	7 53	6 51	—	—	8 55	3·8	
442 Oct. 5 Mon.	Āśvina, (w. m. i.) Kārttika 365	19 36	18 30	—	—	20 42	4·3	
444 Feb. 19 Sat.	Phālguna 366	16 53	15 11	16 30	17 16	18 35	t.	
444 Aug. 14 Mon.	Bhādrapada 367	14 2	12 29	—	—	15 35	10·1	
445 Feb. 8 Thur.	Phālguna 367	9 0	7 11	8 15	9 45	10 49	t.	
445 Aug. 3 Fri.	Śrāvaṇa II, (w. m. i.) Bhādrapada I 368	16 11	14 21	15 25	16 57	18 1	t.	
446 Jan. 28 Mon.	Māgha 368	22 3	21 37	—	—	22 29	0·6	
446 July 21 Wed.	Śrāvaṇa 369	1 20	0 38	—	—	2 2	1·6	
447 June 14 Sat.	Āshāḍha 370	10 1	8 58	—	—	11 4	3·9	
447 Dec. 8 Mon.	Pausha 370	8 52	7 22	—	—	10 22	8·9	
448 June 3 Thur.	Jyeshṭha II, (w. m. i.) Jyeshṭha 371	2 27	0 36	1 37	3 17	4 18	t.	
448 Nov. 26 Fri.	Mārgaśīrsha 371	12 21	10 31	11 32	13 10	14 11	t.	
449 May 23 Mon.	Jyeshṭha 372	13 55	12 31	—	—	15 19	7·7	
449 Nov. 15 Tues.	Mārgaśīrsha 372	23 1	21 50	—	—	24 12	5·0	
451 Apr. 2 Mon.	Vaiśākha I, (w. m. i.) Chaitra 374	4 5	2 38	—	—	5 32	8·2	
451 Sept. 26 Wed.	Āśvina 374	17 48	16 15	—	—	19 21	10·0	
452 Mar. 21 Fri.	Chaitra 375	11 32	9 42	10 43	12 21	13 22	t.	
452 Sept. 14 Sun.	Āśvina 375	24 58	23 8	24 10	25 46	26 48	t.	
453 Mar. 11 Wed.	Chaitra 376	1 23	0 18	—	—	2 28	4·1	
453 Sept. 4 Fri.	Bhādrapada II, (w. m. i.) Āśvina 376	1 55	1 9	—	—	2 41	2·0	
455 Jan. 19 Wed.	Māgha 377	19 20	17 40	19 8	19 32	21 0	t.	
455 July 14 Thur.	Śrāvaṇa 378	24 43	22 59	24 13	25 13	26 27	t.	
456 Jan. 8 Sun.	Māgha 378	23 16	21 29	22 35	23 57	25 3	t.	
456 July 3 Tues.	Āshāḍha II 379	17 1	15 15	16 25	17 37	18 47	t.	
456 Dec. 27 Thur.	Pausha 379	22 28	21 57	—	—	22 59	0·9	
458 May 14 Wed.	Jyeshṭha 381	11 21	10 7	—	—	12 35	5·7	
458 Nov. 6 Thur.	Mārgaśīrsha 381	21 53	20 20	—	—	23 26	9·9	
459 May 3 Sun.	Jyeshṭha I, (w. m. i.) Vaiśākha 382	13 55	12 3	13 3	14 47	15 47	t.	
459 Oct. 27 Tues.	Kārttika 382	13 33	11 42	12 43	14 23	15 24	t.	
460 Apr. 21 Thur.	Vaiśākha 383	14 40	13 27	—	—	15 53	5·5	
460 Oct. 16 Sun.	Kārttika 383	3 57	2 48	—	—	5 6	4·7	
462 Mar. 1 Thur.	Phālguna 384	25 8	23 28	24 58	25 18	26 48	t.	
462 Aug. 25 Sat.	Bhādrapada 385	21 1	19 32	—	—	22 30	8·7	

TABLE E.

A. D. Year, Month, and Day.	Hindu Month and Current Śaka Year. ["v. m. i." = with mean intercalations]		Time measured from Lanka mean sunrise, taken as 6 A. M.						Number of twelfths eclipsed. ["t." = total eclipse.]
			Greatest phase. [i.e. mo- ment of fullmoon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.		
					Begin- ning.	End.			
								h. m.	
1	2	3	4	5	6	7	8		
399 Feb. 6 Sun.	Phālguna..... 321	24 37	23 54	—	—	25 20	1·7		
400 June 22 Fri.	Āshāḍha..... 323	16 38	16 15	—	—	17 1	0·5		
400 Dec. 17 Mon.	Pausha..... 323	17 58	16 17	17 38	18 18	19 39	t.		
401 June 12 Wed.	Āshāḍha..... 324	2 48	0 58	2 0	3 36	4 38	t.		
401 Dec. 6 Fri.	Pausha..... 324	22 51	21 4	22 11	23 31	24 38	t.		
402 June 1 Sun.	Jyeshtha II, (v. m. i.) Jyeshtha..... 325	18 32	16 58	—	—	20 6	10·3		
402 Nov. 25 Tues.	Mārgaśīrsha..... 325	22 14	21 48	—	—	22 40	0·6		
404 Apr. 11 Mon.	Vaiśākha..... 327	14 32	12 56	—	—	16 8	10·9		
404 Oct. 4 Tues.	Kārttika I, (v. m. i.) Kārttika..... 327	19 59	18 23	—	—	21 35	10·9		
405 Mar. 31 Fri.	Chaitra..... 328	17 50	16 1	17 6	18 34	19 39	t.		
405 Sept. 24 Sun.	Āśvina..... 328	11 53	10 3	11 4	12 42	13 43	t.		
406 Mar. 20 Tues.	Chaitra..... 329	17 59	17 26	—	—	18 32	1·0		
406 Sept. 14 Fri.	Āśvina..... 329	3 6	2 7	—	—	4 5	3·4		
408 Jan. 28 Tues.	Māgha..... 330	23 52	22 8	23 23	24 21	25 36	t.		
408 July 23 Thur.	Śrāvaṇa..... 331	24 31	22 49	23 8	24 54	26 13	t.		
409 Jan. 17 Sun.	Māgha..... 331	15 49	14 1	15 7	16 31	17 37	t.		
409 July 13 Tues.	Śrāvaṇa..... 332	2 21	0 36	1 48	2 54	4 6	t.		
410 Jan. 7 Fri.	Māgha..... 332	5 7	4 46	—	—	5 28	0·4		
411 May 23 Tues.	Jyeshtha..... 334	19 5	17 44	—	—	20 26	7·1		
411 Nov. 16 Thur.	Mārgaśīrsha..... 334	16 40	15 10	—	—	18 10	9·1		
412 May 12 Sun.	Jyeshtha..... 335	11 43	9 51	10 51	12 35	13 35	t.		
412 Nov. 4 Mon.	Mārgaśīrsha..... 335	19 29	17 39	18 40	20 18	21 19	t.		
413 May 1 Thur.	Vaiśākha II, (v. m. i.) Vaiśākha..... 336	23 55	22 48	—	—	25 2	4·5		
413 Oct. 25 Sat.	Kārttika..... 336	5 41	4 32	—	—	6 50	4·7		
415 Mar. 11 Thur.	Chaitra..... 338	13 48	12 14	—	—	15 22	10·3		
415 Sept. 5 Sun.	Bhādrapada II, (v. m. i.) Āśvina..... 338	1 51	0 13	—	—	3 29	11·7		
416 Feb. 28 Mon.	Phālguna..... 338	20 3	18 14	19 18	20 48	21 52	t.		
416 Aug. 24 Thur.	Bhādrapada..... 339	10 9	8 21	9 27	10 51	11 57	t.		
417 Feb. 17 Sat.	Phālguna..... 339	9 3	8 13	—	—	9 53	2·4		
418 Dec. 29 Sun.	Pausha..... 341	2 34	0 53	2 14	2 54	4 15	t.		
419 June 23 Mon.	Āshāḍha..... 342	10 1	8 12	9 17	10 45	11 50	t.		
419 Dec. 18 Thur.	Pausha..... 342	7 4	5 17	6 24	7 44	8 51	t.		
420 June 12 Sat.	Āshāḍha..... 343	2 0	0 21	—	—	3 39	11·9		
420 Dec. 6 Mon.	Pausha..... 343	6 19	5 49	—	—	6 49	0·8		
422 Apr. 22 Sat.	Vaiśākha..... 345	21 35	20 4	—	—	23 6	9·2		
422 Oct. 16 Mon.	Kārttika..... 345	4 30	2 56	—	—	6 4	10·3		
423 Apr. 11 Wed.	Vaiśākha..... 346	24 38	22 48	23 50	25 26	26 28	t.		
423 Oct. 5 Fri.	Āśvina II, (v. m. i.) Kārttika..... 346	20 22	18 31	19 32	21 12	22 13	t.		
424 Mar. 31 Mon.	Chaitra II, (v. m. i.) Chaitra..... 347	0 59	0 9	—	—	1 49	2·4		
424 Sept. 24 Wed.	Āśvina..... 347	11 17	10 13	—	—	12 21	4·0		
426 Feb. 8 Mon.	Phālguna..... 348	8 24	6 41	7 57	8 51	10 7	t.		
426 Aug. 4 Wed.	Śrāvaṇa II, (v. m. i.) Bhādrapada I..... 349	7 14	5 36	—	—	8 52	11·6		
427 Jan. 28 Fri.	Māgha..... 349	24 27	22 38	23 43	25 11	26 16	t.		
427 July 24 Sun.	Śrāvaṇa..... 350	9 12	7 25	8 32	9 52	10 59	t.		
428 Jan. 18 Wed.	Māgha..... 350	13 38	13 17	—	—	13 59	0·4		
428 July 12 Thur.	Śrāvaṇa..... 351	17 58	17 47	—	—	18 9	0·1		
429 June 3 Mon.	Jyeshtha II..... 352	2 33	1 20	—	—	3 46	5·5		
429 Nov. 26 Tues.	Mārgaśīrsha..... 352	24 46	23 16	—	—	26 16	9·1		
430 May 23 Fri.	Jyeshtha..... 353	19 6	17 14	18 15	19 57	20 58	t.		
430 Nov. 16 Sun.	Mārgaśīrsha..... 353	3 53	2 3	3 4	4 42	5 43	t.		

ECLIPSES OF THE MOON IN INDIA.

TABLE E.

A. D. Year, Month, and Day.	Hindu Month and Current Śaka Year. ["w. m. i." = with mean intercalations.]	Time measured from Lanka mean sunrise, taken as 5 A. M.						Number of total eclipse. ["t." = total eclipse]
		Greatest phase. [i.e. moment of full moon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.		
				Begin- ning.	End.			
1	2	3	4	5	6	7	8	
431 May 13 Wed.	Jyeshtha 354	6 56	5 40	—	—	8 12	6.0	
431 Nov. 5 Thur.	Mārgaśīrsha 354	14 19	13 9	—	—	15 29	4.9	
433 Mar. 21 Tues.	Chaitra 356	20 58	19 27	—	—	22 29	9.3	
433 Sept. 15 Fri.	Āśvina 356	9 45	8 10	—	—	11 20	10.8	
434 Mar. 11 Sun.	Chaitra 357	3 50	2 0	3 2	4 38	5 40	t.	
434 Sept. 4 Tues.	Bhādrapada II, (w. m. i.) Āśvina 357	17 27	15 37	16 41	18 13	19 17	t.	
435 Feb. 28 Thur.	Phālguna 357	17 16	16 18	—	—	18 14	3.2	
435 Aug. 24 Sat.	Bhādrapada 358	18 49	18 18	—	—	19 20	0.9	
437 Jan. 8 Fri.	Māgha 359	10 58	9 17	10 41	11 15	12 39	t.	
437 July 3 Sat.	Āshāḍha II 360	17 17	15 31	16 40	17 54	19 3	t.	
437 Dec. 28 Tues.	Pauṣa 360	15 13	13 26	14 33	15 53	17 0	t.	
438 June 23 Thur.	Āshāḍha 361	9 30	7 47	9 4	9 56	11 13	t.	
438 Dec. 17 Sat.	Pauṣa 361	14 22	13 51	—	—	14 53	0.9	
440 May 3 Fri.	Jyeshtha 1, (w. m. i.) Vaiśākha 363	4 33	3 10	—	—	5 56	7.5	
440 Oct. 26 Sat.	Kārttika 363	13 8	11 31	—	—	14 42	10.2	
441 Apr. 22 Tues.	Vaiśākha 364	7 20	5 29	6 30	8 10	9 11	t.	
441 Oct. 16 Thur.	Kārttika 364	4 55	3 4	4 5	5 45	6 46	t.	
442 Apr. 11 Sat.	Vaiśākha 365	7 53	6 51	—	—	8 55	3.8	
442 Oct. 5 Mon.	Āśvina, (w. m. i.) Kārttika 365	19 36	18 30	—	—	20 42	4.3	
444 Feb. 10 Sat.	Phālguna 366	16 53	15 11	16 30	17 16	18 35	t.	
444 Aug. 14 Mon.	Bhādrapada 367	14 2	12 29	—	—	15 35	10.1	
445 Feb. 8 Thur.	Phālguna 367	9 0	7 11	8 15	9 45	10 49	t.	
445 Aug. 3 Fri.	Śrāvaṇa II, (w. m. i.) Bhādrapada I 368	16 11	14 21	15 25	16 57	18 1	t.	
446 Jan. 28 Mon.	Māgha 368	22 3	21 37	—	—	22 29	0.6	
446 July 24 Wed.	Śrāvaṇa 369	1 20	0 38	—	—	2 2	1.6	
447 June 14 Sat.	Āshāḍha 370	10 1	8 58	—	—	11 4	3.9	
447 Dec. 8 Mon.	Pauṣa 370	8 52	7 22	—	—	10 22	8.9	
448 June 3 Thur.	Jyeshtha II, (w. m. i.) Jyeshtha 371	2 27	0 36	1 37	3 17	4 18	t.	
448 Nov. 26 Fri.	Mārgaśīrsha 371	12 21	10 31	11 32	13 10	14 11	t.	
449 May 23 Mon.	Jyeshtha 372	13 55	12 31	—	—	15 19	7.7	
449 Nov. 15 Tues.	Mārgaśīrsha 372	23 1	21 50	—	—	24 12	5.0	
451 Apr. 2 Mon.	Vaiśākha 1, (w. m. i.) Chaitra 374	4 5	2 38	—	—	5 32	8.2	
451 Sept. 26 Wed.	Āśvina 374	17 48	16 15	—	—	19 21	10.0	
452 Mar. 21 Fri.	Chaitra 375	11 32	9 42	10 43	12 21	13 22	t.	
452 Sept. 14 Sun.	Āśvina 375	24 58	23 8	24 10	25 46	26 48	t.	
453 Mar. 11 Wed.	Chaitra 376	1 23	0 18	—	—	2 28	4.1	
453 Sept. 4 Fri.	Bhādrapada II, (w. m. i.) Āśvina 376	1 55	1 9	—	—	2 41	2.0	
455 Jan. 19 Wed.	Māgha 377	19 20	17 40	19 8	19 32	21 0	t.	
455 July 14 Thur.	Śrāvaṇa 378	24 43	22 59	24 13	25 13	26 27	t.	
456 Jan. 8 Sun.	Māgha 378	23 16	21 29	22 35	23 57	25 3	t.	
456 July 3 Tues.	Āshāḍha II 379	17 1	15 15	16 25	17 37	18 47	t.	
456 Dec. 27 Thur.	Pauṣa 379	22 28	21 57	—	—	22 59	6.9	
458 May 14 Wed.	Jyeshtha 381	11 21	10 7	—	—	12 35	5.7	
458 Nov. 6 Thur.	Mārgaśīrsha 381	21 53	20 20	—	—	23 26	9.9	
459 May 3 Sun.	Jyeshtha 1, (w. m. i.) Vaiśākha 382	13 55	12 3	13 3	14 47	15 47	t.	
459 Oct. 27 Tues.	Kārttika 382	13 53	11 42	12 43	14 23	15 24	t.	
460 Apr. 21 Thur.	Vaiśākha 383	14 40	13 27	—	—	15 53	5.5	
460 Oct. 16 Sun.	Kārttika 383	3 57	2 48	—	—	5 6	4.7	
462 Mar. 1 Thur.	Phālguna 384	25 8	23 28	24 58	25 18	26 48	t.	
462 Aug. 25 Sat.	Bhādrapada 385	21 1	19 32	—	—	22 39	8.7	

TABLE E.

A. D. Year, Month, and Day.		Hindu Month and Current Śaka Year. ["w. m. i." = with mean intercalations.]		Time measured from Lanka mean sunrise, taken as 6 A. M.						Number of twelfths eclipsed. ["t." = total eclipse.]
				Greatest phase. [i.e. moment of fullmoon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.		
						Begin- ning.	End.			
									h. m.	
1	2	3	4	5	6	7	8			
463 Feb. 19 Tues.	Phālguna..... 385	17 22	15 32	16 36	18 8	19 12	t.			
463 Aug. 14 Wed.	Bhādrapada..... 386	23 22	21 32	22 33	24 11	25 12	t.			
464 Feb. 9 Sun.	Phālguna..... 386	6 14	5 41	—	—	6 47	1.0			
464 Aug. 3 Mon.	Śrāvaṇa II, (w. m. i.) Bhādrapada I.... 387	8 52	7 55	—	—	9 49	3.1			
465 June 24 Thur.	Ashāḍha..... 388	17 27	16 39	—	—	18 15	2.2			
465 Dec. 18 Sat.	Pauṣa..... 388	17 0	15 30	—	—	18 30	8.9			
466 June 14 Tues.	Āshāḍha..... 389	9 40	7 50	8 53	10 27	11 30	t.			
466 Dec. 7 Wed.	Pauṣa..... 389	20 51	19 0	20 1	21 41	22 42	t.			
467 June 3 Sat.	Jyeshtha II, (w. m. i.) Jyeshtha..... 390	20 43	19 12	—	—	22 14	9.4			
467 Nov. 27 Mon.	Mārgaśīrsha..... 390	7 55	6 43	—	—	9 7	5.2			
469 Apr. 12 Sat.	Vaiśākha..... 392	11 7	9 47	—	—	12 27	6.8			
469 Oct. 7 Tues.	Kārttika..... 392	1 58	0 27	—	—	3 29	9.4			
470 Apr. 1 Wed.	Vaiśākha I, (w. m. i.) Chaitra..... 393	19 8	17 16	18 17	19 59	21 0	t.			
470 Sept. 26 Sat.	Āśvina..... 393	8 34	6 44	7 45	9 23	10 24	t.			
471 Mar. 22 Mon.	Chaitra..... 394	9 26	8 15	—	—	10 37	5.0			
471 Sept. 15 Wed.	Āśvina..... 394	9 8	8 12	—	—	10 4	3.0			
473 Jan. 30 Tues.	Māgha..... 395	3 35	1 56	3 35	3 35	5 14	t.			
473 July 25 Wed.	Śrāvaṇa..... 396	8 16	6 35	7 57	8 35	9 57	t.			
474 Jan. 19 Sat.	Māgha..... 396	7 14	5 26	6 32	7 56	9 2	t.			
474 July 14 Sun.	Śrāvaṇa..... 397	24 35	22 47	23 52	25 18	26 23	t.			
475 Jan. 8 Wed.	Māgha..... 397	6 20	5 42	—	—	6 58	1.3			
475 July 4 Fri.	Ashāḍha II..... 398	17 16	17 1	—	—	17 31	0.2			
476 May 24 Mon.	Jyeshtha..... 399	18 8	17 6	—	—	19 10	3.7			
476 Nov. 17 Wed.	Mārgaśīrsha..... 399	6 43	5 11	—	—	8 15	9.8			
477 May 13 Fri.	Jyeshtha..... 400	20 24	18 33	19 34	21 14	22 15	t.			
477 Nov. 6 Sun.	Mārgaśīrsha..... 400	22 24	20 33	21 34	23 14	24 15	t.			
478 May 2 Tues.	Jyeshtha I, (w. m. i.) Vaiśākha..... 401	21 27	20 5	—	—	22 49	7.2			
478 Oct. 27 Fri.	Kārttika..... 401	12 20	11 10	—	—	13 30	4.9			
480 Mar. 12 Wed.	Chaitra..... 403	9 21	7 44	—	—	10 58	11.4			
480 Sept. 5 Fri.	Āśvina I, (w. m. i.) Āśvina..... 403	4 8	2 44	—	—	5 32	7.6			
481 Mar. 1 Sun.	Phālguna..... 403	25 40	23 50	24 52	26 28	27 30	t.			
481 Aug. 25 Tues.	Bhādrapada..... 404	6 40	4 49	5 50	7 30	8 31	t.			
482 Feb. 19 Fri.	Phālguna..... 404	14 20	13 40	—	—	15 0	1.5			
482 Aug. 14 Sat.	Bhādrapada..... 405	16 32	15 24	—	—	17 40	4.6			
483 July 6 Wed.	Śrāvaṇa I..... 406	1 0	0 32	—	—	1 28	0.7			
483 Dec. 29 Thur.	Pauṣa..... 406	25 9	23 39	—	—	26 39	8.9			
484 June 24 Sun.	Āshāḍha..... 407	16 58	15 10	16 16	17 40	18 46	t.			
484 Dec. 18 Tues.	Pauṣa..... 407	5 25	3 34	4 35	6 15	7 16	t.			
485 June 14 Fri.	Āshāḍha..... 408	3 33	1 56	—	—	5 10	11.2			
485 Dec. 7 Sat.	Pauṣa..... 408	16 46	15 35	—	—	17 57	5.1			
487 Apr. 23 Thur.	Vaiśākha..... 410	18 2	16 51	—	—	19 13	5.1			
487 Oct. 18 Sun.	Kārttika..... 410	10 18	8 48	—	—	11 48	8.9			
488 Apr. 12 Tues.	Vaiśākha..... 411	2 37	0 45	1 45	3 29	4 29	t.			
488 Oct. 6 Thur.	Kārttika I, (w. m. i.) Kārttika..... 411	16 20	14 29	15 30	17 10	18 11	t.			
489 Apr. 1 Sat.	Chaitra II, (w. m. i.) Chaitra..... 412	17 20	16 3	—	—	18 37	6.2			
489 Sept. 25 Mon.	Āśvina..... 412	16 32	15 30	—	—	17 34	3.8			
491 Feb. 10 Sun.	Phālguna..... 413	11 44	10 6	—	—	13 22	11.7			
491 Aug. 5 Mon.	Bhādrapada I, (w. m. i.) Bhādrapada.... 414	15 48	14 12	—	—	17 24	11.1			
492 Jan. 30 Thur.	Māgha..... 414	15 10	13 22	14 27	15 53	16 58	t.			
492 July 25 Sat.	Śrāvaṇa..... 415	8 11	6 21	7 24	8 58	10 1	t.			

TABLE E.

A. D. Year, Month, and Day.		Hindu Month and Current Śaka Year. ["w.m.i." = with mean intercalations.]		Time measured from Lāṅkā mean sunrise, taken as 5 A. M.					Number of twelfths eclipsed.	
				Greatest phase. [i.e. mo- ment of full moon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.	["t." = total eclipse.]	
						Begin- ning.	End.			
1	2	3	4	5	6	7	8			
493 Jan. 18 Mon.	Māgha..... 415	14 26	13 43	—	—	15 9	1.7			
493 July 15 Thur.	Śrāvāṇa..... 416	0 41	0 2	—	—	1 20	1.4			
494 June 5 Sun.	Aśāḍha I..... 417	0 49	0 3	—	—	1 35	2.0			
494 Nov. 28 Mon.	Mārgaśīrṣa..... 417	15 38	14 6	—	—	17 10	9.8			
495 May 25 Thur.	Jyeshṭha..... 418	2 51	1 1	2 3	3 39	4 41	t.			
495 Nov. 18 Sat.	Mārgaśīrṣa..... 418	7 13	5 21	6 22	8 4	9 5	t.			
496 May 13 Mon.	Jyeshṭha..... 419	4 6	2 36	—	—	5 36	9.0			
496 Nov. 6 Wed.	Mārgaśīrṣa..... 419	20 57	19 46	—	—	22 8	5.0			
498 Mar. 23 Mon.	Chaitra..... 421	17 24	15 50	—	—	18 58	10.4			
498 Sept. 16 Wed.	Āśvina..... 421	11 25	10 7	—	—	12 43	6.5			
499 Mar. 13 Sat.	Chaitra..... 422	9 48	7 58	8 59	10 37	11 38	t.			
499 Sept. 5 Sun.	Āśvina 1, (w.m.i.) Āśvina..... 422	14 12	12 20	13 21	15 3	16 4	t.			
500 Mar. 1 Wed.	Phālguna..... 422	22 18	21 30	—	—	23 6	2.2			
500 Aug. 24 Thur.	Bhādrapada..... 423	24 14	23 1	—	—	25 27	5.5			
502 Jan. 9 Wed.	Māgha..... 424	9 10	7 42	—	—	10 38	8.4			
502 July 5 Fri.	Aśāḍha II, (w.m.i.) Śrāvāṇa I..... 425	24 19	22 34	23 44	24 54	26 4	t.			
502 Dec. 29 Sun.	Pauṣa..... 425	13 52	12 1	13 2	14 42	15 43	t.			
503 June 25 Wed.	Aśāḍha..... 426	10 21	8 40	10 1	10 41	12 2	t.			
503 Dec. 19 Fri.	Pauṣa..... 426	1 39	0 27	—	—	2 51	5.2			
505 May 3 Tues.	Jyeshṭha I, (w.m.i.) Vaiśākha II..... 428	24 55	23 51	—	—	25 56	3.6			
505 Oct. 28 Fri.	Kārttika..... 428	18 37	17 9	—	—	20 5	8.4			
506 Apr. 23 Sun.	Vaiśākha..... 429	10 4	8 12	9 12	10 56	11 56	t.			
506 Oct. 17 Tues.	Kārttika..... 429	24 8	22 17	23 18	24 58	25 59	t.			
507 Apr. 12 Thur.	Vaiśākha..... 430	25 7	23 43	—	—	26 31	7.6			
507 Oct. 6 Sat.	Kārttika..... 430	24 1	22 53	—	—	25 9	4.6			
509 Feb. 20 Fri.	Phālguna..... 431	19 37	18 1	—	—	21 13	10.9			
509 Aug. 15 Sat.	Bhādrapada..... 432	23 36	22 3	—	—	25 9	10.1			
510 Feb. 9 Tues.	Phālguna..... 432	22 45	20 56	22 0	23 30	24 34	t.			
510 Aug. 5 Thur.	Śrāvāṇa II, (w.m.i.) Bhādrapada..... 433	16 0	14 10	15 11	16 49	17 50	t.			
511 Jan. 29 Sat.	Māgha..... 433	22 13	21 25	—	—	23 1	2.2			
511 July 26 Tues.	Śrāvāṇa..... 434	8 10	7 16	—	—	9 4	2.8			
512 June 15 Fri.	Aśāḍha..... 435	7 26	7 15	—	—	7 37	0.1			
512 Dec. 8 Sat.	Pauṣa..... 435	24 31	22 59	—	—	26 3	9.7			
513 June 4 Tues.	Aśāḍha I, (w.m.i.) Jyeshṭha II..... 436	9 13	7 25	8 31	9 55	11 1	t.			
513 Nov. 28 Thur.	Mārgaśīrṣa..... 436	16 8	14 16	15 17	16 59	18 0	t.			
514 May 24 Sat.	Jyeshṭha..... 437	10 46	9 11	—	—	12 21	10.7			
514 Nov. 18 Tues.	Mārgaśīrṣa..... 437	5 31	4 22	—	—	6 46	5.2			
516 Apr. 2 Sat.	Vaiśākha 1, (w.m.i.) Chaitra..... 439	25 17	23 46	—	—	26 48	9.3			
516 Sept. 26 Mon.	Āśvina..... 439	18 49	17 35	—	—	20 3	5.6			
517 Mar. 23 Thur.	Chaitra..... 440	17 45	15 54	16 55	18 35	19 36	t.			
517 Sept. 15 Fri.	Āśvina..... 440	21 48	19 56	20 56	22 40	23 40	t.			
518 Mar. 13 Tues.	Chaitra..... 441	6 4	5 7	—	—	7 1	3.1			
518 Sept. 5 Wed.	Bhādrapada II, (w.m.i.) Āśvina..... 441	8 9	6 51	—	—	9 27	6.5			
520 Jan. 20 Mon.	Māgha..... 442	17 14	15 46	—	—	18 42	8.4			
520 July 16 Thur.	Śrāvāṇa..... 443	7 35	5 53	7 11	7 59	9 17	t.			
521 Jan. 8 Fri.	Māgha..... 443	22 23	20 32	21 33	23 13	24 14	t.			
521 July 5 Mon.	Aśāḍha II, (w.m.i.) Śrāvāṇa I..... 444	17 8	15 23	16 34	17 42	18 53	t.			
521 Dec. 29 Wed.	Pauṣa..... 444	10 29	9 16	—	—	11 42	5.4			
523 May 15 Mon.	Jyeshṭha..... 446	7 45	6 59	—	—	8 31	2.0			
523 Nov. 9 Thur.	Mārgaśīrṣa..... 446	3 3	1 36	—	—	4 30	8.2			

TABLE E.

A. D. Year, Month, and Day.	Hindu Month and Current Śaka Year. ["w. m. i." = with mean intercalations.]	Time measured from Lanka mean sunrise, taken as 6 A. M.						Number of twelfths eclipsed. ["t." = total eclipse.]
		Greatest phase. [i.e. mo- ment of fullmoon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.		
				Begin- ning.	End.			
							h. m.	
1	2	3	4	5	6	7	8	
524 May 3 Fri.	Jyeshtha I, (w. m. i.) Vaiśākha..... 447	17 24	15 33	16 34	18 14	19 15	t.	
524 Oct. 28 Mon.	Kārttika..... 447	8 7	6 15	7 16	8 58	9 59	t.	
525 Apr. 23 Wed.	Vaiśākha..... 448	8 50	7 20	—	—	10 20	9.0	
525 Oct. 17 Fri.	Kārttika..... 448	7 43	6 31	—	—	8 55	5.2	
527 Mar. 4 Thur.	Phālguna II, (w. m. i.) Phālguna..... 449	3 23	1 50	—	—	4 56	10.1	
527 Aug. 27 Fri.	Bhādrapada..... 450	7 27	5 57	—	—	8 57	8.9	
528 Feb. 21 Mon.	Phālguna..... 450	6 21	4 31	5 34	7 8	8 11	t.	
528 Aug. 15 Tues.	Bhādrapada..... 451	23 52	22 0	23 1	24 43	25 44	t.	
529 Feb. 9 Fri.	Phālguna..... 451	5 54	5 1	—	—	6 47	2.7	
529 Aug. 5 Sun.	Śrāvana II, (w. m. i.) Bhādrapada..... 452	15 47	14 42	—	—	16 52	4.2	
530 Dec. 20 Fri.	Pausha..... 453	9 26	7 54	—	—	10 58	9.7	
531 June 15 Sun.	Āshāḍha..... 454	15 33	13 48	14 59	16 7	17 18	t.	
531 Dec. 9 Tues.	Pausha..... 454	25 2	23 10	24 11	25 53	26 54	t.	
532 June 3 Thur.	Āshāḍha I, (w. m. i.) Jyeshtha II..... 455	17 20	15 38	16 59	17 41	19 2	t.	
532 Nov. 28 Sun.	Mārgaśīrsha..... 455	14 13	13 3	—	—	15 23	4.9	
534 Apr. 14 Fri.	Vaiśākha..... 457	9 7	7 42	—	—	10 32	7.9	
534 Oct. 8 Sun.	Kārttika..... 457	2 28	1 17	—	—	3 39	5.0	
535 Apr. 3 Tues.	Vaiśākha I, (w. m. i.) Chaitra..... 458	25 33	23 41	24 41	26 25	27 25	t.	
535 Sept. 27 Thur.	Āśvina..... 458	5 36	3 44	4 45	6 27	7 28	t.	
536 Mar. 23 Sun.	Chaitra..... 459	13 38	12 33	—	—	14 43	4.1	
536 Sept. 15 Mon.	Āśvina..... 459	16 13	14 49	—	—	17 37	7.6	
538 Jan. 30 Sat.	Māgha..... 460	25 8	23 43	—	—	26 33	7.8	
538 July 27 Tues.	Śrāvana..... 461	14 58	13 21	—	—	16 35	11.5	
539 Jan. 20 Thur.	Māgha..... 461	6 48	4 57	5 58	7 38	8 39	t.	
539 July 16 Sat.	Śrāvana..... 462	24 0	22 12	23 18	24 42	25 48	t.	
540 Jan. 9 Mon.	Māgha..... 462	19 14	18 1	—	—	20 27	5.5	
541 May 25 Sat.	Jyeshtha..... 464	14 29	14 6	—	—	14 52	0.5	
541 Nov. 19 Tues.	Mārgaśīrsha..... 464	11 33	10 6	—	—	13 0	8.2	
542 May 14 Wed.	Jyeshtha..... 465	24 42	22 52	23 54	25 30	26 32	t.	
542 Nov. 8 Sat.	Mārgaśīrsha..... 465	16 8	14 16	15 17	16 59	18 0	t.	
543 May 4 Mon.	Jyeshtha I, (w. m. i.) Vaiśākha..... 466	16 26	14 52	—	—	18 0	10.4	
543 Oct. 28 Wed.	Kārttika..... 466	15 33	14 20	—	—	16 46	5.4	
545 Mar. 14 Tues.	Chaitra..... 468	10 55	9 25	—	—	12 25	9.0	
545 Sept. 6 Wed.	Āśvina..... 468	15 26	14 1	—	—	16 51	7.8	
546 Mar. 3 Sat.	Phālguna..... 468	13 43	11 53	12 54	14 32	15 33	t.	
546 Aug. 27 Mon.	Bhādrapada..... 469	7 50	5 58	6 58	8 42	9 42	t.	
547 Feb. 20 Wed.	Phālguna..... 469	13 29	12 29	—	—	14 29	3.5	
547 Aug. 16 Fri.	Bhādrapada..... 470	23 25	22 13	—	—	24 37	5.3	
548 Dec. 30 Wed.	Pausha..... 471	18 17	16 45	—	—	19 49	9.7	
549 June 25 Fri.	Āshāḍha..... 472	21 56	20 16	21 42	22 10	23 36	t.	
549 Dec. 20 Mon.	Pausha..... 472	9 58	8 6	9 7	10 49	11 50	t.	
550 June 14 Tues.	Āshāḍha..... 473	23 59	22 14	23 25	24 33	25 44	t.	
550 Dec. 9 Fri.	Pausha..... 473	22 54	21 43	—	—	24 5	5.0	
552 Apr. 24 Wed.	Vaiśākha..... 475	16 47	15 28	—	—	18 6	6.6	
552 Oct. 18 Fri.	Kārttika..... 475	10 14	9 8	—	—	11 20	4.3	
553 Apr. 14 Mon.	Vaiśākha..... 476	9 17	7 25	8 25	10 9	11 9	t.	
553 Oct. 7 Tues.	Kārttika..... 476	13 39	11 47	12 48	14 30	15 31	t.	
554 Apr. 3 Fri.	Vaiśākha I, (w. m. i.) Chaitra..... 477	21 5	19 52	—	—	22 18	5.4	
554 Sept. 26 Sat.	Āśvina..... 477	24 26	22 59	—	—	25 53	8.2	
556 Feb. 11 Fri.	Phālguna..... 478	8 54	7 31	—	—	10 17	7.5	

TABLE E.

A. D. Year, Month, and Day.		Hindu Month and Current Śaka Year. ["w. m. i." = with mean intercalations.]		Time measured from Lanka mean sunrise, taken as 6 A. M.						Number of twelfths eclipsed. ["t." = total eclipse.]
				Greatest phase. [i.e. moment of full moon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.		
						Begin- ning.	End.			
									h. m.	
1	2	3	4	5	6	7	8			
556 Aug. 6 Sun.	Bhādrapada I, (w. m. i.) Bhādrapada. . . 479	22 24	20 51	—	—	23 57	10·1			
557 Jan. 30 Tues.	Māgha. 479	15 6	13 14	14 15	15 57	16 58	t.			
557 July 27 Fri.	Śrāvāṇa. 480	6 54	5 4	6 7	7 41	8 44	t.			
558 Jan. 20 Sun.	Māgha. 480	3 51	2 40	—	—	5 8	5·7			
558 July 16 Tues.	Śrāvāṇa. 481	8 50	8 20	—	—	9 20	0·8			
559 Nov. 30 Sun.	Mārgaśīrṣa. 482	20 5	18 40	—	—	21 30	7·9			
560 May 25 Tues.	Jyeshtha. 483	7 59	6 10	7 15	8 43	9 48	t.			
560 Nov. 18 Thur.	Mārgaśīrṣa. 483	24 12	22 20	23 21	25 3	26 4	t.			
561 May 14 Sat.	Jyeshtha. 484	23 58	22 18	23 48	24 8	25 38	t.			
561 Nov. 7 Mon.	Mārgaśīrṣa. 484	23 30	22 15	—	—	24 45	5·9			
563 Mar. 25 Sun.	Chaitra. 486	18 23	16 59	—	—	19 47	7·7			
563 Sept. 17 Mon.	Āśvina. 486	23 40	22 19	—	—	25 1	7·1			
564 Mar. 13 Thur.	Chaitra. 487	20 55	19 4	20 5	21 45	22 46	t.			
564 Sept. 6 Sat.	Āśvina I, (w. m. i.) Āśvina. 487	15 55	14 3	15 3	16 47	17 47	t.			
565 Mar. 2 Mon.	Phālguna. 487	20 56	19 49	—	—	22 3	4·4			
565 Aug. 27 Thur.	Bhādrapada. 488	7 9	5 52	—	—	8 26	6·3			
567 Jan. 11 Tues.	Māgha. 489	3 4	1 32	—	—	4 36	9·6			
567 July 7 Thur.	Śrāvāṇa I, (w. m. i.) Śrāvāṇa. 490	4 26	2 51	—	—	6 1	10·8			
567 Dec. 31 Sat.	Pauṣa. 490	18 47	16 55	17 56	19 38	20 39	t.			
568 June 25 Mon.	Āshāḍha. 491	6 42	4 51	5 59	7 25	8 30	t.			
568 Dec. 20 Thur.	Pauṣa. 491	7 30	6 19	—	—	8 41	5·1			
569 June 14 Fri.	Āshāḍha. 492	15 48	15 25	—	—	16 11	0·5			
570 May 5 Mon.	Jyeshtha, (w. m. i.) Jyeshtha I. 493	21 23	23 11	—	—	25 35	5·2			
570 Oct. 29 Wed.	Kārttika. 493	18 6	17 3	—	—	19 9	3·9			
571 Apr. 25 Sat.	Vaiśākha. 494	16 46	14 54	15 55	17 37	18 38	t.			
571 Oct. 18 Sun.	Kārttika. 491	21 48	19 57	20 58	22 38	23 39	t.			
572 Apr. 14 Thur.	Vaiśākha. 495	4 19	3 1	—	—	5 37	6·5			
572 Oct. 7 Fri.	Kārttika. 495	8 47	7 18	—	—	10 16	8·8			
574 Feb. 21 Wed.	Phālguna. 496	16 36	15 16	—	—	17 56	6·9			
574 Aug. 18 Sat.	Bhādrapada. 497	5 56	4 27	—	—	7 25	8·7			
575 Feb. 10 Sun.	Phālguna. 497	23 20	21 28	22 29	24 11	25 12	t.			
575 Aug. 7 Wed.	Bhādrapada I, (w. m. i.) Bhādrapada. 498	13 48	11 58	12 59	14 37	15 38	t.			
576 Jan. 31 Fri.	Māgha. 498	12 32	11 15	—	—	13 49	6·2			
576 July 26 Sun.	Śrāvāṇa. 499	15 26	14 37	—	—	16 15	2·3			
577 Dec. 11 Sat.	Pauṣa. 500	4 38	3 13	—	—	6 3	7·8			
578 June 5 Sun.	Āshāḍha I. 501	15 11	13 25	14 34	15 48	16 57	t.			
578 Nov. 30 Wed.	Mārgaśīrṣa. 501	8 24	6 32	7 33	9 15	10 16	t.			
579 May 26 Fri.	Jyeshtha. 502	7 30	5 47	7 2	7 58	9 13	t.			
579 Nov. 19 Sun.	Mārgaśīrṣa. 502	7 30	6 14	—	—	8 46	6·1			
581 Apr. 5 Sat.	Vaiśākha I, (w. m. i.) Chaitra II. 504	1 36	0 17	—	—	2 55	6·6			
581 Sept. 28 Sun.	Āśvina. 504	7 55	6 37	—	—	9 13	6·5			
582 Mar. 25 Wed.	Chaitra. 505	3 58	2 6	3 6	4 50	5 50	t.			
582 Sept. 17 Thur.	Āśvina. 505	24 8	22 16	23 16	25 0	26 0	t.			
583 Mar 14 Sun.	Chaitra. 506	4 15	3 1	—	—	5 29	5·6			
583 Sept. 7 Tues.	Bhādrapada II, (w. m. i.) Āśvina. 506	14 59	13 37	—	—	16 21	7·3			
585 Jan. 21 Sun.	Māgha. 507	11 50	10 19	—	—	13 21	9·4			
585 July 17 Tues.	Śrāvāṇa. 508	10 56	9 26	—	—	12 26	9·0			
586 Jan. 11 Fri.	Māgha. 508	3 36	1 44	2 45	4 27	5 28	t.			
586 July 6 Sat.	Śrāvāṇa I, (w. m. i.) Śrāvāṇa. 509	13 32	11 42	12 44	14 20	15 22	t.			
586 Dec. 31 Tues.	Pauṣa. 509	16 5	14 54	—	—	17 16	5·0			

TABLE E.

A. D. Year, Month, and Day.	Hindu Month and Current Śaka Year. ["w. m. i." = with mean intercalations.]	Time measured from Lanka mean sunrise, taken as 6 A. M.					Number of twelfths eclipsed. ["t." = total eclipse.]
		Greatest phase. [i.e. moment of full moon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.	
				Begin- ning.	End.		
1	2	3	4	5	6	7	8
587 June 25 Wed.	Āshāḍha..... 510	23 0	22 12	—	—	23 48	2·2
588 May 16 Sun.	Jyeshtha..... 511	7 58	6 56	—	—	9 0	3·7
588 Nov. 9 Tues.	Mārgaśīrsha..... 511	2 6	1 5	—	—	3 7	3·6
589 May 5 Thur.	Jyeshtha 1, (w. m. i.) Vaiśākha II..... 512	24 14	23 24	23 25	25 3	26 4	t.
589 Oct. 29 Sat.	Kārttika..... 512	6 0	4 9	5 10	6 50	7 51	t.
590 Apr. 25 Tues.	Vaiśākha..... 513	11 25	9 58	—	—	12 52	8·2
590 Oct. 18 Wed.	Kārttika..... 513	17 16	15 45	—	—	18 47	9·3
592 Mar. 3 Mon.	Chaitra 515, (w. m. i.) Phālguna 514.... 515	24 8	22 53	—	—	25 23	5·8
592 Aug. 28 Thur.	Bhādrapada..... 515	13 36	12 13	—	—	14 59	7·5
593 Feb. 21 Sat.	Phālguna..... 515	7 26	5 34	6 34	8 18	9 18	t.
593 Aug. 17 Mon.	Bhādrapada..... 516	20 54	19 2	20 3	21 45	22 46	t.
594 Feb. 10 Wed.	Phālguna..... 516	21 4	19 44	—	—	22 24	6·8
594 Aug. 6 Fri.	Bhādrapada 1, (w. m. i.) Bhādrapada.... 517	22 6	21 2	—	—	23 10	4·0
595 Dec. 22 Thur.	Pausha..... 518	13 9	11 45	—	—	14 33	7·7
596 June 15 Fri.	Āshāḍha..... 519	22 31	20 48	22 3	22 59	24 14	t.
596 Dec. 10 Mon.	Pausha..... 519	16 31	14 42	15 43	17 25	18 26	t.
597 June 5 Wed.	Āshāḍha 1..... 520	14 56	13 10	14 18	15 34	16 42	t.
597 Nov. 29 Fri.	Mārgaśīrsha..... 520	15 33	14 16	—	—	16 50	6·2
599 Apr. 16 Thur.	Vaiśākha..... 522	8 44	7 34	—	—	9 54	4·9
599 Oct. 9 Fri.	Kārttika..... 522	16 25	15 9	—	—	17 41	6·0
600 Apr. 4 Mon.	Vaiśākha I, (w. m. i.) Chaitra..... 523	10 51	8 59	10 0	11 42	12 43	t.
600 Sept. 28 Wed.	Āśvina..... 523	8 30	6 38	7 39	9 21	10 22	t.
601 Mar. 24 Fri.	Chaitra..... 524	11 23	10 3	—	—	12 43	6·9
601 Sept. 17 Sun.	Āśvina..... 524	22 59	21 33	—	—	24 25	8·1
603 Feb. 1 Fri.	Māgha..... 525	20 28	18 58	—	—	21 58	9·1
603 July 28 Sun.	Śrāvaṇa..... 526	17 32	16 11	—	—	18 53	7·0
604 Jan. 22 Wed.	Māgha..... 526	12 16	10 24	11 25	13 7	14 8	t.
604 July 16 Thur.	Śrāvaṇa..... 527	20 19	18 28	19 29	21 9	22 10	t.
605 Jan. 10 Sun.	Māgha..... 527	24 34	23 24	—	—	25 44	4·9
605 July 6 Tues.	Śrāvaṇa I, (w. m. i.) Śrāvaṇa..... 528	6 19	5 15	—	—	7 23	4·0
606 May 27 Fri.	Jyeshtha..... 529	15 28	14 43	—	—	16 13	1·9
606 Nov. 20 Sun.	Mārgaśīrsha..... 529	10 11	9 10	—	—	11 12	3·6
607 May 17 Wed.	Jyeshtha..... 530	7 40	5 50	6 54	8 26	9 30	t.
607 Nov. 9 Thur.	Mārgaśīrsha..... 530	14 27	12 36	13 37	15 17	16 18	t.
608 May 5 Sun.	Jyeshtha 1, (w. m. i.) Vaiśākha II..... 531	18 26	16 53	—	—	19 59	9·9
608 Oct. 29 Tues.	Kārttika..... 531	1 57	0 25	—	—	3 29	9·6
610 Mar. 15 Sun.	Chaitra..... 533	7 34	6 23	—	—	8 45	5·0
610 Sept. 8 Tues.	Āśvina..... 533	21 21	20 3	—	—	22 39	6·4
611 Mar. 4 Thur.	Chaitra..... 534	15 24	13 32	14 32	16 16	17 16	t.
611 Aug. 29 Sun.	Bhādrapada..... 534	4 4	2 12	3 12	4 56	5 56	t.
612 Feb. 22 Tues.	Phālguna..... 534	5 29	4 7	—	—	6 51	7·2
612 Aug. 17 Thur.	Bhādrapada..... 535	4 54	3 41	—	—	6 7	5·4
614 Jan. 1 Tues.	Pausha..... 536	21 35	20 11	—	—	22 59	7·6
614 June 27 Thur.	Āshāḍha..... 537	5 51	4 12	5 44	5 58	7 30	t.
614 Dec. 21 Sat.	Pausha..... 537	24 41	22 49	23 50	25 32	26 33	t.
615 June 16 Mon.	Āshāḍha..... 538	22 26	20 37	21 42	23 10	24 15	t.
615 Dec. 10 Wed.	Pausha..... 538	23 41	22 23	—	—	24 59	6·5
616 June 5 Sat.	Āshāḍha I..... 539	15 10	14 52	—	—	15 28	0·3
617 Apr. 26 Tues.	Vaiśākha..... 540	15 37	14 39	—	—	16 35	3·3
617 Oct. 19 Wed.	Kārttika..... 540	24 54	23 41	—	—	26 7	5·5

TABLE E.

A. D. Year, Month, and Day.	Hindu Month and Current Śaka Year. ["w. m. i." = with mean intercalations.]	Time measured from Lanka mean sunrise, taken as 6 A. M.						Number of twelfths eclipsed. ["t." = total eclipse.]
		Greatest phaso. [i.e. mo- ment of full moon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.		
				Begin- ning.	End.			
							h. m.	
1	2	3	4	5	6	7	8	
618 Apr. 15 Sat.	Vaiśākha..... 541	17 36	15 46	16 47	18 25	19 26	t.	
618 Oct. 9 Mon.	Kārttika..... 541	16 55	15 3	16 4	17 46	18 47	t.	
619 Apr. 4 Wed.	Vaiśākha I, (w. m. i.) Chaitra..... 542	18 25	16 57	—	—	19 53	8.4	
619 Sept. 29 Sat.	Āśvina..... 542	7 3	5 35	—	—	8 31	8.5	
621 Feb. 12 Thur.	Phālguna..... 543	5 1	3 33	—	—	6 29	8.6	
621 Aug. 7 Fri.	Bhādrapada I, (w. m. i.) Bhādrapada..... 544	24 13	22 59	—	—	25 27	5.6	
622 Feb. 1 Mon.	Māgha..... 544	20 51	18 59	19 59	21 43	22 43	t.	
622 July 28 Wed.	Śrāvava..... 545	3 19	1 27	2 27	4 11	5 11	t.	
623 Jan. 22 Sat.	Māgha..... 545	8 59	7 47	—	—	10 11	5.3	
623 July 17 Sun.	Śrāvava..... 546	13 37	12 23	—	—	14 51	5.7	
624 June 6 Wed.	Āshāḍha..... 547	22 58	22 35	—	—	23 21	0.5	
624 Nov. 30 Fri.	Mārgaśīrsha..... 547	18 19	17 20	—	—	19 18	3.4	
625 May 27 Mon.	Jyeshtha..... 548	14 53	13 6	14 11	15 35	16 40	t.	
625 Nov. 19 Tues.	Mārgaśīrsha..... 548	22 54	21 3	22 4	23 44	24 45	t.	
626 May 16 Fri.	Jyeshtha..... 549	25 21	23 44	—	—	26 58	11.4	
626 Nov. 9 Sun.	Mārgaśīrsha..... 549	10 35	9 3	—	—	12 7	9.8	
628 Mar. 25 Fri.	Chaitra..... 551	14 49	13 46	—	—	15 52	3.9	
628 Sept. 19 Mon.	Āśvina..... 551	5 11	3 58	—	—	6 24	5.5	
629 Mar. 14 Tues.	Chaitra..... 552	23 14	21 22	22 23	24 5	25 6	t.	
629 Sept. 8 Fri.	Āśvina I, (w. m. i.) Āśvina..... 552	11 18	9 26	10 27	12 9	13 10	t.	
630 Mar. 4 Sun.	Chaitra 553, (w. m. i.) Phālguna 552... 553	13 40	12 14	—	—	15 6	8.1	
630 Aug. 28 Tues.	Bhādrapada..... 553	11 52	10 32	—	—	13 12	6.8	
632 Jan. 13 Mon.	Māgha..... 554	5 54	4 32	—	—	7 16	7.2	
632 July 7 Tues.	Śrāvava I, (w. m. i.) Śrāvava..... 555	13 13	11 39	—	—	14 47	10.4	
633 Jan. 1 Fri.	Pauṣa..... 555	8 42	6 50	7 50	9 34	10 34	t.	
633 June 27 Sun.	Āshāḍha..... 556	5 53	4 3	5 5	6 41	7 43	t.	
633 Dec. 21 Tues.	Pauṣa..... 556	7 45	6 26	—	—	9 4	6.6	
634 June 16 Thur.	Āshāḍha..... 557	22 33	21 49	—	—	23 17	1.8	
635 May 7 Sun.	Jyeshtha, (w. m. i.) Jyeshtha I..... 558	22 29	21 47	—	—	23 11	1.6	
635 Oct. 31 Tues.	Kārttika..... 558	9 37	8 24	—	—	10 50	5.4	
636 Apr. 25 Thur.	Vaiśākha..... 559	24 15	22 25	23 29	25 1	26 5	t.	
636 Oct. 19 Sat.	Kārttika..... 559	25 30	23 39	24 40	26 20	27 21	t.	
637 Apr. 14 Mon.	Vaiśākha..... 560	25 22	23 49	—	—	26 55	9.9	
637 Oct. 9 Thur.	Kārttika..... 560	15 19	13 49	—	—	16 49	9.1	
639 Feb. 23 Tues.	Phālguna..... 561	13 26	12 0	—	—	14 52	8.0	
639 Aug. 19 Thur.	Bhādrapada..... 562	7 7	6 3	—	—	8 11	4.0	
640 Feb. 13 Sun.	Phālguna..... 562	5 21	3 29	4 29	6 13	7 13	t.	
640 Aug. 7 Mon.	Bhādrapada I, (w. m. i.) Bhādrapada..... 563	10 25	8 33	9 34	11 16	12 17	t.	
641 Feb. 1 Thur.	Māgha..... 563	17 14	16 0	—	—	18 28	5.7	
641 July 27 Fri.	Śrāvava..... 564	21 2	19 41	—	—	22 23	7.1	
642 Dec. 12 Thur.	Pauṣa..... 565	2 32	1 32	—	—	3 32	3.5	
643 June 7 Sat.	Āshāḍha I, (w. m. i.) Āshāḍha..... 566	22 10	20 25	21 37	22 43	23 55	t.	
643 Dec. 1 Mon.	Mārgaśīrsha..... 566	7 27	5 36	6 37	8 17	9 18	t.	
644 May 27 Thur.	Jyeshtha..... 567	8 10	6 28	7 48	8 32	9 52	t.	
644 Nov. 19 Fri.	Mārgaśīrsha..... 567	19 23	17 50	—	—	20 56	10.1	
646 Apr. 5 Wed.	Vaiśākha, (w. m. i.) Vaiśākha I..... 569	21 59	21 5	—	—	22 53	2.8	
646 Sept. 30 Sat.	Āśvina..... 569	13 13	12 3	—	—	14 23	4.8	
647 Mar. 26 Mon.	Chaitra..... 570	7 0	5 9	6 10	7 50	8 51	t.	
647 Sept. 19 Wed.	Āśvina..... 570	18 47	16 56	17 57	19 37	20 38	t.	
648 Mar. 14 Fri.	Chaitra..... 571	21 49	20 19	—	—	23 19	9.1	

TABLE E.

A. D. Year, Month, and Day.	Hindu Month and Current Śaka Year. ["w. m. i." = with mean intercalations.]	Time measured from Lanka mean sunrise, taken as 6 A. M.						Number of twelfths eclipsed. ["t." = total eclipse.]
		Greatest phase. [i.e. moment of full moon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.		
				Begin- ning.	End.			
							h. m.	
1	2	3	4	5	6	7	8	
648 Sept. 7 Sun.	Āśvina 571	18 59	17 31	—	—	20 24	7·8	
650 Jan. 23 Sat.	Māgha 572	14 10	12 49	—	—	15 31	7·0	
650 July 18 Sun.	Śrāvāṇa 573	20 43	19 13	—	—	22 13	8·9	
651 Jan. 12 Wed.	Māgha 573	16 46	14 51	15 54	17 38	18 38	t.	
651 July 8 Fri.	Śrāvāṇa 1, (w. m. i.) Śrāvāṇa 574	13 28	11 37	12 38	14 18	15 19	t.	
652 Jan. 1 Sun.	Pauṣa 574	15 52	14 33	—	—	17 11	6·7	
652 June 27 Wed.	Āshāḍha 575	5 51	4 52	—	—	6 50	3·4	
653 Nov. 10 Sun.	Mārgaśīrṣa 576	18 27	17 15	—	—	19 39	5·3	
654 May 7 Wed.	Jyeshtha, (w. m. i.) Jyeshtha 1 577	6 47	5 0	6 5	7 29	8 34	t.	
654 Oct. 31 Fri.	Kārttika 577	10 13	8 22	9 23	11 3	12 4	t.	
655 Apr. 26 Sun.	Vaiśākha 578	5 13	6 35	—	—	9 51	11·6	
655 Oct. 20 Tues.	Kārttika 578	23 38	22 7	—	—	25 9	9·4	
657 Mar. 5 Sun.	Chaitra 580, (w. m. i.) Phālguna 579 579	21 43	20 21	—	—	23 5	7·2	
657 Aug. 29 Tues.	Bhādrapada 580	14 10	13 16	—	—	15 4	2·8	
658 Feb. 23 Fri.	Phālguna 580	13 42	11 50	12 59	14 34	15 34	t.	
658 Aug. 18 Sat.	Bhādrapada 581	17 43	15 52	16 53	18 33	19 34	t.	
659 Feb. 13 Wed.	Phālguna 581	1 22	0 7	—	—	2 37	5·8	
659 Aug. 8 Thur.	Bhādrapada 1, (w. m. i.) Bhādrapada 582	4 39	3 11	—	—	6 7	8·4	
660 Dec. 22 Tues.	Pauṣa 583	10 45	9 15	—	—	11 45	3·5	
661 June 18 Fri.	Āshāḍha 584	5 19	3 38	5 2	5 36	7 0	t.	
661 Dec. 11 Sat.	Pauṣa 584	16 2	14 11	15 12	16 52	17 53	t.	
662 June 7 Tues.	Āshāḍha 1, (w. m. i.) Āshāḍha 585	14 55	15 9	14 19	15 31	16 41	t.	
662 Dec. 1 Thur.	Mārgaśīrṣa 585	4 16	2 43	—	—	5 49	10·0	
664 Apr. 16 Tues.	Vaiśākha 587	5 8	4 39	—	—	5 46	1·3	
664 Oct. 10 Thur.	Kārttika 587	21 19	20 14	—	—	22 24	4·2	
665 Apr. 5 Sat.	Vaiśākha, (w. m. i.) Chaitra 11 588	14 38	12 48	13 49	15 27	16 28	t.	
665 Sept. 30 Tues.	Āśvina 588	2 22	0 32	1 33	3 11	4 12	t.	
666 Mar. 26 Thur.	Chaitra 589	5 49	4 16	—	—	7 22	10·1	
666 Sept. 19 Sat.	Āśvina 589	2 17	0 48	—	—	3 46	8·8	
668 Feb. 3 Thur.	Māgha 590	22 18	20 59	—	—	23 37	6·7	
668 July 29 Sat.	Śrāvāṇa 591	4 21	2 57	—	—	5 45	7·6	
669 Jan. 22 Mon.	Māgha 591	24 38	22 46	23 46	25 30	26 30	t.	
669 July 18 Wed.	Śrāvāṇa 592	21 5	19 13	20 13	21 57	22 57	t.	
670 Jan. 11 Fri.	Māgha 592	23 53	22 32	—	—	25 14	7·1	
670 July 8 Mon.	Śrāvāṇa 1, (w. m. i.) Śrāvāṇa 593	13 10	12 1	—	—	14 19	4·7	
671 Nov. 22 Sat.	Mārgaśīrṣa 594	3 16	2 4	—	—	4 28	5·2	
672 May 17 Mon.	Jyeshtha 595	13 19	11 34	12 46	13 52	15 4	t.	
672 Nov. 10 Wed.	Mārgaśīrṣa 595	18 59	17 8	18 9	19 49	20 50	t.	
673 May 6 Fri.	Jyeshtha, (w. m. i.) Jyeshtha 1 596	15 3	13 21	14 39	15 27	16 45	t.	
673 Oct. 31 Mon.	Kārttika 596	8 2	6 31	—	—	9 33	9·5	
675 Mar. 17 Sat.	Chaitra 598	5 50	4 32	—	—	7 8	6·4	
675 Sept. 9 Sun.	Āśvina 598	21 18	20 31	—	—	22 2	1·8	
676 Mar. 5 Wed.	Chaitra 599, (w. m. i.) Phālguna 598 599	21 54	20 2	21 2	22 46	23 46	t.	
676 Aug. 28 Thur.	Bhādrapada 599	23 10	23 20	24 22	25 58	27 0	t.	
677 Feb. 23 Mon.	Phālguna 599	9 21	8 2	—	—	10 40	6·6	
677 Aug. 18 Tues.	Bhādrapada 600	12 21	10 49	—	—	13 53	9·8	
679 Jan. 2 Sun.	Pauṣa 601	18 55	17 57	—	—	19 53	3·2	
679 June 29 Wed.	Āshāḍha 602	12 34	10 58	—	—	14 10	11·0	
679 Dec. 22 Thur.	Pauṣa 602	24 41	22 50	23 51	25 31	26 32	t.	
680 June 17 Sun.	Āshāḍha 603	21 37	19 49	20 55	22 19	23 25	t.	

TABLE E.

A. D. Year, Month, and Day.	Hindu Month and Current Śaka Year. ["w. m. i." = with mean intercalations.]	Time measured from Lāika mean sunrise, taken as 6 A. M.						Number of twelfths eclipsed. ["t." = total eclipse.]
		Greatest phase. [i. e. moment of fullmoon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.		
				Begin- ning.	End.			
							h. m.	
1	2	3	4	5	6	7	8	
680 Dec. 11 Tues.	Pausha 603	13 11	11 37	—	—	14 45	10.2	
682 Oct. 22 Wed.	Kārttika 605	5 31	4 29	—	—	6 33	3.7	
683 Apr. 16 Thur.	Vaiśākha 606	22 10	20 20	21 23	22 57	24 0	t.	
683 Oct. 11 Sun.	Kārttika 606	10 2	8 12	9 14	10 50	11 52	t.	
684 Apr. 5 Tues.	Vaiśākha, (w. m. i.) Chaitra II. 607	13 43	12 6	—	—	15 20	11.5	
684 Sept. 29 Thur.	Āśvina 607	9 39	8 7	—	—	11 11	9.7	
686 Feb. 14 Wed.	Phālguna 608	6 16	5 1	—	—	7 31	5.9	
686 Aug. 9 Thur.	Bhādrapada 609	11 58	10 41	—	—	13 15	6.3	
687 Feb. 3 Sun.	Māgha 609	8 25	6 33	7 34	9 16	10 17	t.	
687 July 30 Tues.	Śrāvaṇa 610	4 44	2 52	3 52	5 36	6 36	t.	
688 Jan. 23 Thur.	Māgha 610	7 51	6 28	—	—	9 14	7.4	
688 July 18 Sat.	Śrāvaṇa 611	20 32	19 15	—	—	21 49	6.3	
689 Dec. 2 Thur.	Mārgaśīrsha 612	12 9	10 57	—	—	13 21	5.2	
690 May 28 Sat.	Jyeshtha 613	19 41	18 1	19 31	19 51	21 21	t.	
690 Nov. 22 Tues.	Mārgaśīrsha 613	3 51	2 0	3 1	4 41	5 42	t.	
691 May 17 Wed.	Jyeshtha 614	21 48	20 2	21 13	22 23	23 34	t.	
691 Nov. 11 Sat.	Mārgaśīrsha 614	16 36	15 4	—	—	18 8	9.6	
693 Mar. 27 Thur.	Chaitra 616	13 53	12 39	—	—	15 7	5.6	
693 Sept. 20 Sat.	Āśvina 616	4 42	4 11	—	—	5 13	0.9	
694 Mar. 17 Tues.	Chaitra 617	5 53	4 1	5 2	6 44	7 45	t.	
694 Sept. 9 Wed.	Āśvina 617	8 48	6 58	8 1	9 35	10 38	t.	
695 Mar. 6 Sat.	Chaitra I 618, (w. m. i.) Phālguna 617.	17 11	15 48	—	—	18 34	7.4	
695 Aug. 29 Sun.	Bhādrapada 618	20 13	18 37	—	—	21 49	10.9	
697 Jan. 13 Sat.	Māgha 619	3 4	2 8	—	—	4 0	3.0	
697 July 9 Mon.	Śrāvaṇa I, (w. m. i.) Śrāvaṇa 620	19 49	18 18	—	—	21 20	9.2	
698 Jan. 2 Wed.	Pausha 620	9 13	7 22	8 23	10 3	11 4	t.	
698 June 29 Sat.	Āshāḍha 621	4 21	2 31	3 33	5 9	6 11	t.	
698 Dec. 22 Sun.	Pausha 621	22 2	20 28	—	—	23 36	10.3	
699 June 18 Wed.	Āshāḍha 622	6 23	5 43	—	—	6 58	1.1	
700 Nov. 1 Mon.	Kārttika 623	13 46	12 48	—	—	14 44	3.3	
701 Apr. 27 Wed.	Vaiśākha 624	5 39	3 51	4 57	6 21	7 27	t.	
701 Oct. 21 Fri.	Kārttika 624	17 52	16 2	17 5	18 39	19 42	t.	
702 Apr. 16 Sun.	Vaiśākha 625	21 34	19 53	21 15	21 53	23 15	t.	
702 Oct. 10 Tues.	Kārttika 625	17 20	15 46	—	—	18 54	10.3	
704 Feb. 25 Mon.	Phālguna 626	14 3	12 52	—	—	15 14	5.1	
704 Aug. 19 Tues.	Bhādrapada 627	19 45	18 33	—	—	20 57	5.2	
705 Feb. 13 Fri.	Phālguna 627	16 0	14 9	15 10	16 50	17 51	t.	
705 Aug. 9 Sun.	Bhādrapada 628	12 27	10 35	11 36	13 18	14 19	t.	
706 Feb. 2 Tues.	Māgha 628	15 40	14 15	—	—	17 5	7.9	
706 July 30 Fri.	Śrāvaṇa 629	3 58	2 34	—	—	5 22	7.6	
707 Dec. 13 Tues.	Pausha 630	21 8	19 57	—	—	22 19	5.1	
708 June 8 Fri.	Āshāḍha 631	2 7	0 33	—	—	3 41	10.3	
708 Dec. 2 Sun.	Mārgaśīrsha 631	12 41	10 50	11 51	13 31	14 32	t.	
709 May 28 Tues.	Jyeshtha 632	4 32	2 43	3 48	5 16	6 21	t.	
709 Nov. 21 Thur.	Mārgaśīrsha 632	25 9	23 37	—	—	26 41	9.8	
710 May 17 Sat.	Jyeshtha 633	13 43	13 20	—	—	14 6	0.5	
711 Apr. 7 Tues.	Vaiśākha, (w. m. i.) Vaiśākha I. 634	21 49	20 43	—	—	22 55	4.3	
712 Mar. 27 Sun.	Chaitra 635	13 44	11 53	12 54	14 34	15 35	t.	
712 Sept. 19 Mon.	Āśvina 635	16 33	14 44	15 49	17 17	18 22	t.	
713 Mar. 16 Thur.	Chaitra 636	24 46	23 19	—	—	26 13	8.2	

TABLE E.

A. D. Year, Month, and Day.	Hindu Month and Current Śaka Year. ["w. m. i." = with mean Inter-calations.]	Time measured from Lauka mean sunrise, taken as 6 A. M.						Number of twelfths eclipsed. ["t." = total eclipse.]
		Greatest phase. [i.e. moment of full moon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.		
				Begin- ning.	End.			
							h. m.	
1	2	3	4	5	6	7	8	
713 Sept. 9 Sat.	Āśvina..... 636	4 11	2 32	—	—	5 50	11.9	
715 Jan. 24 Thur.	Māgha..... 637	11 3	10 7	—	—	11 59	3.0	
715 July 21 Sun.	Śrāvāna..... 638	2 59	1 35	—	—	4 23	7.6	
716 Jan. 13 Mon.	Māgha..... 638	17 45	15 55	16 56	18 34	19 35	t.	
716 July 9 Thur.	Śrāvāna I, (w. m. i.) Śrāvāna..... 639	11 4	9 13	10 14	11 54	12 55	t.	
717 Jan. 2 Sat.	Pausha..... 639	6 51	5 17	—	—	8 25	10.4	
717 June 28 Mon.	Āshāḍha..... 640	12 46	11 50	—	—	13 42	3.0	
718 Nov. 12 Sat.	Mārgaśīrsha..... 641	22 11	21 17	—	—	23 5	2.8	
719 May 8 Mon.	Jyeshtha..... 642	13 4	11 18	12 28	13 40	14 50	t.	
719 Nov. 1 Wed.	Kārttika..... 642	25 45	23 55	24 59	26 31	27 35	t.	
720 Apr. 27 Sat.	Vaiśākha..... 643	5 14	3 30	4 42	5 46	6 58	t.	
720 Oct. 20 Sun.	Kārttika..... 643	25 1	23 26	—	—	26 36	10.8	
722 Mar. 7 Sat.	Chaitra, (w. m. i.) Chaitra I..... 645	21 45	20 38	—	—	22 52	4.4	
722 Aug. 31 Mon.	Bhādrapada..... 645	3 40	2 35	—	—	4 45	4.2	
723 Feb. 24 Wed.	Phālguna..... 645	23 30	21 39	22 40	24 20	25 21	t.	
723 Aug. 20 Fri.	Bhādrapada..... 646	20 21	18 30	19 31	21 11	22 12	t.	
724 Feb. 13 Sun.	Phālguna..... 646	23 22	21 54	—	—	24 50	8.6	
724 Aug. 9 Wed.	Bhādrapada I, (w. m. i.) Bhādrapada.... 647	11 31	10 0	—	—	13 2	9.2	
725 Dec. 24 Mon.	Pausha..... 648	6 0	4 48	—	—	7 12	5.3	
726 June 19 Wed.	Āshāḍha..... 649	8 29	7 1	—	—	9 57	8.4	
726 Dec. 13 Fri.	Pausha..... 649	21 35	19 41	20 45	22 25	23 26	t.	
727 June 8 Sun.	Āshāḍha..... 650	11 16	9 26	10 27	12 5	13 6	t.	
727 Dec 3 Wed.	Mārgaśīrsha..... 650	9 44	8 12	—	—	11 16	9.7	
728 May 27 Thur.	Jyeshtha..... 651	20 54	20 3	—	—	21 45	2.5	
729 Apr. 18 Mon.	Vaiśākha..... 652	5 32	4 36	—	—	6 28	3.0	
730 Apr. 7 Fri.	Vaiśākha, (w. m. i.) Vaiśākha I..... 653	21 31	19 41	20 43	22 19	23 21	t.	
730 Sept. 30 Sat.	Āśvina..... 653	24 28	22 41	23 46	25 10	26 15	t.	
731 Mar. 28 Wed.	Chaitra..... 654	8 15	6 44	—	—	9 46	9.4	
731 Sept. 20 Thur.	Āśvina..... 654	12 19	10 38	11 59	12 39	14 0	t.	
733 Feb. 3 Tues.	Phālguna, (w. m. i.) Māgha II..... 655	19 0	18 8	—	—	19 52	2.6	
733 July 31 Fri.	Śrāvāna..... 656	10 19	9 3	—	—	11 35	6.0	
734 Jan. 24 Sun.	Māgha..... 656	2 13	0 23	1 24	3 2	4 3	t.	
734 July 20 Tues.	Śrāvāna..... 657	17 46	15 54	16 54	18 38	19 38	t.	
735 Jan. 13 Thur.	Māgha..... 657	15 41	14 10	—	—	17 18	10.4	
735 July 9 Sat.	Śrāvāna I, (w. m. i.) Śrāvāna..... 658	19 15	18 5	—	—	20 25	4.9	
736 Nov. 23 Fri.	Mārgaśīrsha..... 659	6 36	5 43	—	—	7 29	2.7	
737 May 18 Sat.	Jyeshtha..... 660	20 26	18 43	19 59	20 53	22 9	t.	
737 Nov. 12 Tues.	Mārgaśīrsha..... 660	9 46	7 57	9 1	10 31	11 35	t.	
738 May 8 Thur.	Jyeshtha..... 661	12 50	11 3	12 11	13 29	14 37	t.	
738 Nov. 1 Sat.	Kārttika..... 661	8 54	7 17	—	—	10 31	11.4	
740 Mar. 18 Fri.	Chaitra..... 663	5 11	4 13	—	—	6 9	3.2	
740 Sept. 10 Sat.	Āśvina..... 663	11 46	10 48	—	—	12 44	3.2	
741 Mar. 7 Tues.	Chaitra 664, (w. m. i.) Phālguna II 663.	6 49	4 59	6 1	7 37	8 39	t.	
741 Aug. 31 Thur.	Bhādrapada..... 664	4 18	2 28	3 29	5 7	6 8	t.	
742 Feb. 24 Sat.	Phālguna..... 664	7 1	5 30	—	—	8 32	9.5	
742 Aug. 20 Mon.	Bhādrapada..... 665	19 6	17 32	—	—	20 40	10.2	
744 Jan. 4 Sat.	Pausha..... 666	14 51	13 40	—	—	16 2	5.1	
744 June 29 Mon.	Āshāḍha..... 667	14 54	13 36	—	—	16 12	6.5	
744 Dec. 24 Thur.	Pausha..... 667	6 23	4 32	5 33	7 13	8 14	t.	
745 June 18 Fri	Āshāḍha..... 668	17 59	16 8	17 9	18 49	19 50	t.	

TABLE E.

A. D. Year, Month, and Day.		Hindu Month and Current Saka Year. ["w. m. i." = with mean intercalations.]		Time measured from Lanka mean sunrise, taken as 6 A. M.					Number of twelfths eclipsed. ["t." = total eclipse.]
				Greatest phase. [i.e. moment of fullmoon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.	
						Begin- ning.	End.		
1	2	3	4	5	6	7	8		
745 Dec. 13 Mon.	Pausha 668	18 15	16 43	—	—	19 47	9.7		
746 June 8 Wed.	Āshāḍha 669	4 10	3 4	—	—	5 16	4.3		
747 Apr. 29 Sat.	Vaiśākha 670	13 11	12 28	—	—	13 54	1.7		
748 Apr. 18 Thur.	Vaiśākha 671	5 8	3 19	4 23	5 53	6 57	t.		
748 Oct. 11 Fri.	Kārttika 671	8 36	6 49	7 57	9 15	10 23	t.		
749 Apr. 7 Mon.	Vaiśākha, (w. m. i.) Vaiśākha I. 672	15 34	13 58	—	—	17 10	10.9		
749 Sept. 30 Tues.	Āsvina 672	20 39	18 56	20 14	21 4	22 22	t.		
751 Feb. 15 Mon.	Phālguna 673	2 49	2 2	—	—	3 36	2.1		
751 Aug. 11 Wed.	Bhādrapada 674	17 40	16 32	—	—	18 48	4.6		
752 Feb. 4 Fri.	Phālguna, (w. m. i.) Māgha 674	10 33	8 43	9 44	11 22	12 23	t.		
752 July 30 Sun.	Śrāvaṇa 675	24 37	22 45	23 46	25 28	26 29	t.		
753 Jan. 23 Tues.	Māgha 675	24 22	22 46	—	—	25 58	10.9		
753 July 20 Fri.	Śrāvaṇa 676	1 43	0 24	—	—	3 2	6.6		
754 Dec. 4 Wed.	Mārgaśīrsha 677	15 0	14 8	—	—	15 52	2.6		
755 May 30 Fri.	Jyeshtha 678	3 46	2 7	—	—	5 25	11.9		
755 Nov. 23 Sun.	Mārgaśīrsha 678	17 47	15 58	17 2	18 32	19 36	t.		
756 May 18 Tues.	Jyeshtha 679	20 21	18 32	19 37	21 5	22 10	t.		
756 Nov. 11 Thur.	Mārgaśīrsha 679	16 51	15 13	—	—	18 29	11.6		
757 May 8 Sun.	Jyeshtha 680	13 0	12 39	—	—	13 21	0.4		
758 Mar. 29 Wed.	Chaitra 681	12 26	11 39	—	—	13 13	2.1		
758 Sept. 21 Thur.	Āsvina 681	19 58	19 7	—	—	20 49	2.5		
759 Mar. 18 Sun.	Chaitra 682	13 57	12 7	13 11	14 43	15 47	t.		
759 Sept. 11 Tues.	Āsvina 682	12 26	10 36	11 39	13 13	14 16	t.		
760 Mar. 6 Thur.	Chaitra 683, (w. m. i.) Phālguna II 682. 683	14 30	12 56	—	—	16 4	10.4		
760 Aug. 31 Sun.	Bhādrapada 683	2 47	1 11	—	—	4 23	11.1		
762 Jan. 14 Thur.	Māgha 684	23 40	22 30	—	—	24 50	4.9		
762 July 10 Sat.	Śrāvaṇa 685	21 21	20 14	—	—	22 28	4.5		
763 Jan. 4 Tues.	Pausha 685	15 12	13 22	14 23	16 1	17 2	t.		
763 June 29 Wed.	Āshāḍha 686	24 45	22 53	23 53	25 37	26 37	t.		
763 Dec. 25 Sun.	Pausha 686	2 48	1 16	—	—	4 20	9.7		
764 June 18 Mon.	Āshāḍha 687	11 19	10 4	—	—	12 34	5.8		
765 May 9 Thur.	Jyeshtha 688	20 48	20 30	—	—	21 6	0.3		
766 Apr. 29 Tues.	Vaiśākha 689	12 30	10 43	11 51	13 9	14 17	t.		
766 Oct. 22 Wed.	Kārttika 689	16 50	15 4	16 12	17 28	18 36	t.		
767 Apr. 18 Sat.	Vaiśākha 690	22 42	21 3	22 42	22 42	24 21	t.		
767 Oct. 12 Mon.	Kārttika 690	5 4	3 20	4 34	5 34	6 48	t.		
769 Feb. 25 Sat.	Phālguna 691	10 33	9 55	—	—	11 11	1.3		
769 Aug. 22 Tues.	Bhādrapada 692	1 11	0 13	—	—	2 9	3.3		
770 Feb. 14 Wed.	Phālguna 692	18 47	16 57	17 59	19 35	20 37	t.		
770 Aug. 11 Sat.	Bhādrapada 693	7 32	5 42	6 43	8 21	9 22	t.		
771 Feb. 4 Mon	Phālguna, (w. m. i.) Māgha 693	9 1	7 24	—	—	10 38	11.3		
771 July 31 Wed.	Śrāvaṇa 694	8 22	6 54	—	—	9 50	8.4		
772 Dec. 14 Mon.	Pausha 695	23 30	22 39	—	—	24 21	2.5		
773 June 9 Wed.	Āshāḍha 696	11 7	9 33	—	—	12 41	10.3		
773 Dec. 4 Sat.	Mārgaśīrsha 696	1 53	0 4	1 9	2 37	3 42	t.		
774 May 30 Mon.	Jyeshtha 697	3 50	2 0	3 1	4 39	5 40	t.		
774 Nov. 22 Tues.	Mārgaśīrsha 697	24 54	23 16	—	—	26 32	11.7		
775 May 19 Fri.	Jyeshtha 698	20 24	19 40	—	—	21 8	1.8		
776 Apr. 8 Mon.	Vaiśākha 699	19 36	19 8	—	—	20 4	0.7		
776 Oct. 2 Wed.	Āsvina 699	4 21	3 37	—	—	5 5	1.8		

TABLE E.

A. D. Year, Month, and Day.		Hindu Month and Current Śaka Year. ["w. m. i." = with mean intercalations.]		Time measured from Lanka mean sunrise, taken as 6 A. M.						Number of twelfths eclipsed. ["t." = total eclipse.]
				Greatest phase. [i. e. mo- ment of full moon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.		
						Begin- ning.	End.			
									h. m.	
1	2	3	4	5	6	7	8			
777 Mar. 28 Fri.	Chaitra..... 700	20 58	19 10	20 15	21 41	22 46	t.			
777 Sept. 21 Sun.	Āśvina..... 700	20 36	18 47	19 51	21 21	22 25	t.			
778 Mar. 17 Tues.	Chaitra..... 701	21 49	20 12	—	—	23 26	11.5			
778 Sept. 11 Fri.	Āśvina..... 701	10 36	8 57	10 29	10 43	12 15	t.			
780 Jan. 26 Wed.	Māgha..... 702	8 27	7 18	—	—	9 36	4.7			
780 July 21 Fri.	Śrāvaṇa..... 703	3 53	2 59	—	—	4 47	2.8			
781 Jan. 14 Sun.	Māgha..... 703	23 55	22 5	23 6	24 44	25 45	t.			
781 July 10 Tues.	Śrāvaṇa..... 704	7 39	5 48	6 49	8 29	9 30	t.			
782 Jan. 4 Fri.	Pausha..... 704	11 15	9 42	—	—	12 43	9.9			
782 June 29 Sat.	Āshāḍha..... 705	18 38	17 15	—	—	20 1	7.5			
784 May 9 Sun.	Jyeshṭha..... 707	19 56	18 11	19 23	20 29	21 41	t.			
784 Nov. 1 Mon.	Kārttika..... 707	25 10	23 24	24 34	25 46	26 56	t.			
785 Apr. 29 Fri.	Vaiśākha..... 708	5 42	3 59	5 15	6 9	7 25	t.			
785 Oct. 22 Sat.	Kārttika..... 708	13 38	11 53	13 5	14 11	15 23	t.			
787 Mar. 8 Thur.	Chaitra, (w. m. i.) Chaitra I..... 710	18 8	17 40	—	—	18 36	0.7			
787 Sept. 2 Sun.	Bhādrapada..... 710	8 46	7 59	—	—	9 33	2.1			
788 Feb. 26 Tues.	Phālguna..... 710	2 58	1 8	2 11	3 45	4 48	t.			
788 Aug. 21 Thur.	Bhādrapada..... 711	14 33	12 43	13 47	15 19	16 23	t.			
789 Feb. 14 Sat.	Phālguna..... 711	17 31	15 52	—	—	19 10	11.9			
789 Aug. 10 Mon.	Bhādrapada..... 712	15 4	13 31	—	—	16 37	10.0			
790 Dec. 26 Sun.	Pausha..... 713	7 52	7 3	—	—	8 41	2.3			
791 June 20 Mon.	Āshāḍha..... 714	18 25	16 57	—	—	19 53	8.6			
791 Dec. 15 Thur.	Pausha..... 714	10 1	8 13	9 18	10 44	11 49	t.			
792 June 9 Sat.	Āshāḍha..... 715	11 23	9 32	10 33	12 13	13 14	t.			
792 Dec. 3 Mon.	Mārgaśīrsha..... 715	9 0	7 22	—	—	10 38	11.8			
793 May 30 Thur.	Jyeshṭha..... 716	3 43	2 43	—	—	4 43	3.5			
794 Oct. 13 Mon.	Kārttika..... 717	12 52	12 13	—	—	13 31	1.4			
795 Apr. 9 Thur.	Vaiśākha..... 718	3 49	2 3	3 13	4 25	5 35	t.			
795 Oct. 3 Sat.	Āśvina..... 718	4 54	3 6	4 12	5 36	6 42	t.			
796 Mar. 28 Mon.	Chaitra..... 719	5 2	3 21	4 43	5 21	6 43	t.			
796 Sept. 21 Wed.	Āśvina..... 719	18 33	16 52	18 14	18 52	20 14	t.			
798 Feb. 5 Mon.	Phālguna, (w. m. i.) Phālguna I..... 720	17 4	15 58	—	—	18 10	4.3			
798 Aug. 1 Wed.	Śrāvaṇa..... 721	10 39	10 0	—	—	11 18	1.4			
799 Jan. 26 Sat.	Māgha..... 721	8 33	6 43	7 44	9 22	10 23	t.			
799 July 21 Sun.	Śrāvaṇa..... 722	14 38	12 43	13 50	15 26	16 28	t.			
800 Jan. 15 Wed.	Māgha..... 722	19 41	18 8	—	—	21 14	10.1			
800 July 10 Fri.	Śrāvaṇa..... 723	1 59	0 28	—	—	3 30	9.4			
802 May 21 Sat.	Jyeshṭha..... 725	3 16	1 36	3 0	3 32	4 56	t.			
802 Nov. 13 Sun.	Mārgaśīrsha..... 725	9 41	7 55	9 5	10 17	11 27	t.			
803 May 10 Wed.	Jyeshṭha..... 726	12 38	10 52	12 2	13 14	14 24	t.			
803 Nov. 2 Thur.	Kārttika..... 726	22 16	20 31	21 42	22 50	24 1	t.			
805 Sept. 12 Fri.	Āśvina..... 728	16 28	15 53	—	—	17 3	1.1			
806 Mar. 8 Sun.	Chaitra, (w. m. i.) Chaitra I..... 729	10 59	9 10	10 14	11 44	12 48	t.			
806 Sept. 1 Tues.	Bhādrapada..... 729	21 37	19 49	20 55	22 19	23 25	t.			
807 Feb. 26 Fri.	Phālguna..... 729	1 52	0 12	1 40	2 4	3 32	t.			
807 Aug. 21 Sat.	Bhādrapada..... 730	21 56	20 19	—	—	23 33	11.4			
809 Jan. 5 Fri.	Pausha, (w. m. i.) Pausha II..... 731	16 16	15 27	—	—	17 5	2.3			
809 July 1 Sun.	Āshāḍha..... 732	1 50	0 30	—	—	3 10	6.9			
809 Dec. 25 Tues.	Pausha..... 732	18 2	16 14	17 19	18 45	19 50	t.			
810 June 20 Thur.	Āshāḍha..... 733	18 48	16 56	17 56	19 40	20 40	t.			

ECLIPSES OF THE MOON IN INDIA.

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TABLE E.

A. D. Year, Month, and Day.	Hindu Month and Current Śaka Year. ["m. m. d." = with mean intercalations.]	Time measured from Lanka mean sunrise, taken as 6 A. M.					Number of twelfths eclipsed. ["t." = total eclipse.]
		Greatest phase, (i.e. moment of fullmoon)	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.	
				Begin- ning.	End.		
1	2	3	4	5	6	7	8
S10 Dec. 14 Sat.	Pausha..... 733	17 9	15 29	16 39	17 19	18 49	t.
S11 June 10 Tues.	Āshādha..... 734	11 2	9 51	—	—	12 13	5.0
S12 Oct. 23 Sat.	Kārtika..... 735	21 29	20 34	—	—	22 4	1.1
S13 Apr. 19 Tues.	Vaiśākha..... 736	10 35	8 52	10 9	11 1	12 18	t.
S13 Oct. 13 Thur.	Kārtika..... 736	13 26	11 39	12 46	14 6	15 13	t.
S14 Apr. 8 Sat.	Vaiśākha..... 737	12 8	10 21	11 37	12 59	13 52	t.
S14 Oct. 3 Tues.	Āśvina..... 737	2 38	0 55	2 12	3 4	4 21	t.
S16 Feb. 17 Sun.	Phalguṇa..... 738	1 34	0 31	—	—	2 37	3.9
S17 Feb. 5 Thur.	Phalguṇa, (m. m. d.) Māgha II..... 739	17 7	15 17	16 19	17 35	18 57	t.
S17 July 31 Fri.	Śravana..... 739	21 47	19 28	21 2	22 32	23 36	t.
S18 Jan. 26 Tues.	Māgha..... 740	4 1	2 27	—	—	5 35	10.3
S18 July 21 Wed.	Śravana..... 741	9 24	7 18	—	—	11 0	10.9
S20 May 31 Thur.	Jyēsthā..... 743	10 26	8 51	—	—	12 1	10.7
S20 Nov. 23 Fri.	Mārgaśīrṣa..... 743	18 14	16 28	17 38	18 50	20 0	t.
S21 May 29 Mon.	Jyēsthā..... 744	19 24	17 35	18 40	20 8	21 13	t.
S21 Nov. 13 Wed.	Mārgaśīrṣa..... 744	7 4	5 19	6 30	7 38	8 49	t.
S22 Nov. 2 Sun.	Kārtika..... 745	22 47	22 29	—	—	23 5	0.3
S23 Sept. 24 Thur.	Āśvina..... 746	0 17	0 6	—	—	0 28	0.1
S24 Mar. 18 Fri.	Chaitra..... 747	18 54	17 7	18 12	19 36	20 41	t.
S24 Sept. 12 Mon.	Āśvina..... 747	4 13	3 7	4 16	5 10	6 39	t.
S25 Mar. 8 Wed.	Chaitra, (m. m. d.) Chaitra I..... 748	10 8	8 26	9 44	10 32	11 50	t.
S25 Sept. 1 Fri.	Bhādrapada..... 748	4 55	3 14	4 34	5 12	6 36	t.
S27 Jan. 16 Wed.	Māgha..... 749	24 30	23 45	—	—	25 15	1.9
S27 July 12 Fri.	Śravana..... 750	9 19	8 6	—	—	10 32	5.5
S28 Jan. 6 Mon.	Pausha..... 750	2 3	0 13	1 21	2 45	3 51	t.
S28 July 1 Wed.	Āshādha..... 751	2 20	0 28	1 28	3 12	4 12	t.
S28 Dec. 24 Thur.	Pausha..... 751	25 19	23 32	25 9	25 29	26 59	t.
S29 June 20 Sun.	Āshādha..... 752	18 18	16 39	—	—	19 37	6.6
S30 Nov. 4 Fri.	Kārtika..... 753	6 13	5 45	—	—	6 41	0.7
S31 Apr. 30 Sun.	Vaiśākha..... 754	17 9	15 31	—	—	18 47	11.8
S31 Oct. 24 Tues.	Kārtika..... 754	21 57	20 11	21 19	22 35	23 43	t.
S32 Apr. 18 Thur.	Vaiśākha..... 755	19 10	17 23	18 31	19 19	20 57	t.
S32 Oct. 13 Sun.	Kārtika..... 755	10 47	9 3	10 17	11 17	12 31	t.
S33 Apr. 8 Tues.	Vaiśākha..... 756	3 40	3 29	—	—	3 51	0.1
S34 Feb. 27 Fri.	Phalguṇa..... 756	9 55	8 58	—	—	10 52	3.1
S35 Feb. 16 Tues.	Phalguṇa..... 757	25 30	23 40	24 43	26 17	27 20	t.
S35 Aug. 12 Thur.	Bhādrapada..... 758	5 3	3 16	4 23	5 43	6 50	t.
S36 Feb. 6 Sun.	Phalguṇa, (m. m. d.) Māgha II..... 758	12 8	10 34	—	—	13 42	10.5
S36 July 31 Mon.	Śravana..... 759	16 57	15 17	16 45	17 9	18 37	t.
S38 June 11 Tues.	Āshādha..... 761	17 36	16 6	—	—	19 6	9.0
S38 Dec. 5 Thur.	Mārgaśīrṣa..... 761	2 53	1 7	2 18	3 28	4 39	t.
S39 June 1 Sun.	Jyēsthā..... 762	2 5	0 15	1 16	2 54	3 55	t.
S39 Nov. 24 Mon.	Mārgaśīrṣa..... 762	15 54	14 8	15 18	16 30	17 40	t.
S40 May 29 Thur.	Jyēsthā..... 763	4 4	3 25	—	—	4 43	1.4
S40 Nov. 13 Sat.	Mārgaśīrṣa..... 763	7 36	7 13	—	—	7 59	0.5
S42 Mar. 30 Thur.	Chaitra..... 765	2 40	0 54	2 3	3 17	4 26	t.
S42 Sept. 23 Sat.	Āśvina..... 765	12 18	10 33	11 45	12 51	14 3	t.
S43 Mar. 19 Mon.	Chaitra..... 766	18 17	16 33	17 46	18 48	20 1	t.
S43 Sept. 12 Wed.	Āśvina..... 766	12 6	10 23	11 38	12 34	13 49	t.
S45 Jan. 27 Tues.	Māgha..... 767	8 38	7 58	—	—	9 18	1.5

TABLE E.

A. D. Year, Month, and Day.			Hindu Month and Current Śaka Year. ["w. m. i." = with mean intercalations.]		Time measured from Lanka mean sunrise, taken as 6 A. M.					Number of twelfths eclipsed. ["t." = total eclipse.]	
					Greatest phase. [i.e. mo- ment of fullmoon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.		
							Begin- ning.	End.			
1	2	3	4	5	6	7	8				
845 July 22 Wed.	Śrāvana 768	16 49	15 44	—	—	17 54	4.1				
846 Jan. 16 Sat.	Māgha..... 768	10 0	8 13	9 18	10 42	11 47	t.				
846 July 12 Mon.	Śrāvana 769	9 52	8 1	9 2	10 42	11 43	t.				
847 Jan. 5 Wed.	Pausha 769	9 26	7 46	9 12	9 40	11 6	t.				
847 July 2 Sat.	Āshāḍha 770	1 34	0 7	—	—	3 1	8.2				
848 Nov. 14 Wed.	Mārgasīrsha 771	15 1	14 35	—	—	15 27	0.6				
849 May 10 Fri.	Jyeshtha..... 772	23 42	22 9	—	—	25 15	10.1				
849 Nov. 4 Mon.	Kārttika..... 772	6 42	4 56	6 6	7 18	8 28	t.				
850 Apr. 30 Wed.	Vaiśākha..... 773	2 0	0 11	1 15	2 45	3 49	t.				
850 Oct. 24 Fri.	Kārttika..... 773	19 1	17 17	18 29	19 33	20 45	t.				
851 Apr. 19 Sun.	Vaiśākha..... 774	11 11	10 33	—	—	11 49	1.3				
852 Mar. 9 Wed.	Chaitra..... 775	18 11	17 22	—	—	19 0	2.3				
853 Feb. 27 Mon.	Phālguna..... 775	9 42	7 53	8 57	10 27	11 31	t.				
853 Aug. 22 Tues.	Bhādrapada..... 776	12 23	10 38	11 49	12 57	14 8	t.				
854 Feb. 16 Fri.	Phālguna..... 776	20 9	18 33	—	—	21 45	11.1				
854 Aug. 11 Sat.	Bhādrapada..... 777	24 38	22 55	24 10	25 6	26 21	t.				
856 June 21 Sun.	Āshāḍha..... 779	24 43	23 21	—	—	26 5	7.2				
856 Dec. 15 Tues.	Pausha 779	11 28	9 42	10 52	12 4	13 14	t.				
857 June 11 Fri.	Āshāḍha..... 780	8 44	6 52	7 53	9 35	10 36	t.				
857 Dec. 4 Sat.	Mārgasīrsha..... 780	24 46	23 0	24 10	25 22	26 32	t.				
858 May 31 Tues.	Jyeshtha..... 781	10 29	9 31	—	—	11 27	3.3				
858 Nov. 24 Thur.	Mārgasīrsha..... 781	16 27	16 6	—	—	16 48	0.4				
860 Apr. 9 Tues.	Vaiśākha..... 783	10 25	8 41	9 54	10 56	12 9	t.				
860 Oct. 3 Thur.	Āśvina..... 783	19 50	18 7	19 24	20 16	21 33	t.				
861 Mar. 30 Sun.	Chaitra..... 784	2 18	0 32	1 41	2 55	4 4	t.				
861 Sept. 22 Mon.	Āśvina..... 784	19 27	17 42	18 52	20 2	21 12	t.				
863 Feb. 7 Sun.	Phālguna, (w. m. i.) Phālguna I. 785	16 38	16 7	—	—	17 9	0.9				
863 Aug. 2 Mon.	Śrāvana..... 786	24 28	23 35	—	—	25 21	2.7				
864 Jan. 27 Thur.	Māgha..... 786	17 53	16 6	17 13	18 33	19 40	t.				
864 July 22 Sat.	Śrāvana..... 787	17 28	15 38	16 39	18 17	19 18	t.				
865 Jan. 15 Mon.	Māgha..... 787	17 28	15 47	17 9	17 47	19 9	t.				
865 July 12 Thur.	Śrāvana..... 788	8 47	7 14	—	—	10 20	10.0				
866 Nov. 25 Mon.	Mārgasīrsha..... 789	23 54	23 26	—	—	24 22	0.7				
867 May 22 Thur.	Jyeshtha..... 790	6 6	4 40	—	—	7 32	8.0				
867 Nov. 15 Sat.	Mārgasīrsha..... 790	15 25	13 39	14 49	16 1	17 11	t.				
868 May 10 Mon.	Jyeshtha..... 791	8 52	7 2	8 3	9 41	10 42	t.				
868 Nov. 4 Thur.	Kārttika..... 791	3 22	1 37	2 48	3 56	5 7	t.				
869 Apr. 29 Fri.	Vaiśākha..... 792	18 32	17 37	—	—	19 27	2.9				
870 Mar. 21 Tues.	Chaitra..... 793	2 17	1 37	—	—	2 57	1.5				
871 Mar. 10 Sat.	Chaitra..... 794	17 50	16 2	17 8	18 32	19 38	t.				
871 Sept. 2 Sun.	Bhādrapada..... 794	19 57	18 14	19 30	20 24	21 40	t.				
872 Feb. 28 Thur.	Phālguna..... 794	4 3	2 25	—	—	5 41	11.8				
872 Aug. 22 Fri.	Bhādrapada..... 795	8 24	6 38	7 49	8 59	10 10	t.				
874 July 3 Sat.	Āshāḍha..... 797	7 51	6 38	—	—	9 4	5.4				
874 Dec. 26 Sun.	Pausha 797	20 9	18 23	19 33	20 45	21 55	t.				
875 June 22 Wed.	Āshāḍha..... 798	15 22	13 30	14 30	16 14	17 14	t.				
875 Dec. 16 Fri.	Pausha 798	9 40	7 54	9 4	10 16	11 26	t.				
876 June 10 Sun.	Āshāḍha..... 799	16 51	15 39	—	—	18 3	5.2				
876 Dec. 5 Wed.	Mārgasīrsha..... 799	1 19	0 58	—	—	1 40	0.4				
878 Apr. 20 Sun.	Vaiśākha..... 801	17 54	16 13	17 34	18 14	19 35	t.				

TABLE E.

A. D. Year, Month, and Day.	Hindu Month and Current Śaka Year. ["m.m." = with mean intercalations.]	Time measured from Lanka mean sunrise, taken as 6 A.M.					Number of twelfths eclipsed. ["L." = total eclipse.]
		Greatest phase. [i.e. moment of full moon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.	
				Begin- ning.	End.		
1	2	3	4	5	6	7	8
878 Oct. 15 Wed.	Kārtika..... 801	3 29	1 48	3 9	3 49	5 10	0.
879 Apr. 10 Fri.	Vaiśākha..... 802	10 6	8 18	9 24	10 48	11 54	0.
879 Oct. 4 Sun.	Āśvina..... 802	2 57	1 11	2 19	3 35	4 43	0.
880 Mar. 30 Wed.	Chaitra..... 803	2 28	2 17	—	—	2 39	0.1
880 Sept. 22 Thur.	Āśvina..... 803	6 14	5 51	—	—	6 37	0.5
881 Feb. 18 Sat.	Phalguṇa..... 803	0 27	0 9	—	—	0 45	0.3
881 Aug. 13 Sun.	Bhādrapada..... 804	8 13	7 34	—	—	8 52	1.4
882 Feb. 6 Tues.	Phalguṇa, (or, m. f.) Phalguṇa I..... 804	25 31	23 45	24 54	26 8	27 17	1.
882 Aug. 2 Thur.	Śrāvaṇa..... 805	25 6	23 17	24 21	25 51	26 55	1.
883 Jan. 26 Sat.	Māgha..... 805	25 26	23 44	25 2	25 50	27 8	0.
883 July 23 Tues.	Śrāvaṇa..... 806	16 9	14 52	—	—	17 46	11.2
884 Dec. 6 Sun.	Mārgaśīrṣa, (or, m. f.) Mārgaśīrṣa II..... 807	8 44	8 21	—	—	9 7	0.5
885 June 1 Tues.	Jyēsthā..... 808	19 53	11 15	—	—	13 51	6.4
885 Nov. 25 Thur.	Mārgaśīrṣa..... 808	24 12	22 27	23 37	24 47	25 57	1.
886 May 21 Sat.	Jyēsthā..... 809	15 46	13 54	14 55	16 37	17 38	0.
886 Nov. 15 Tues.	Mārgaśīrṣa..... 809	11 47	10 2	11 15	12 21	13 32	1.
887 May 11 Thur.	Jyēsthā..... 810	1 56	0 48	—	—	3 4	4.6
888 Mar. 31 Sun.	Chaitra..... 811	10 16	9 53	—	—	10 39	0.5
889 Mar. 20 Thur.	Chaitra..... 812	25 45	23 59	25 7	26 23	27 31	1.
889 Sept. 18 Sat.	Āśvina..... 812	3 41	2 0	3 22	4 0	5 22	1.
890 Mar. 10 Tues.	Chaitra..... 813	11 43	10 2	11 26	12 0	13 24	0.
890 Sept. 2 Wed.	Bhādrapada..... 813	16 19	14 52	15 39	16 59	18 6	1.
891 Aug. 23 Mon.	Bhādrapada..... 814	8 46	8 16	—	—	9 16	0.8
892 July 13 Thur.	Śrāvaṇa..... 815	14 58	13 55	—	—	16 1	3.9
893 Jan. 6 Sat.	Māgha, (or, m. f.) Pausa II..... 815	4 48	3 2	4 12	5 24	6 34	1.
893 July 2 Mon.	Āshāḍha..... 816	22 1	20 10	21 11	22 51	23 52	0.
893 Dec. 26 Wed.	Pauṣa..... 816	18 33	16 47	17 57	19 9	20 19	1.
894 June 21 Fri.	Āshāḍha..... 817	23 14	21 52	—	—	24 56	7.2
894 Dec. 16 Mon.	Pauṣa..... 817	10 11	9 48	—	—	10 34	0.5
896 Apr. 30 Fri.	Vaiśākha..... 819	25 26	23 48	—	—	27 4	11.6
896 Oct. 25 Mon.	Kārtika..... 819	11 13	9 33	10 59	11 27	12 53	0.
897 Apr. 29 Wed.	Vaiśākha..... 820	17 51	16 2	17 6	18 36	19 49	1.
897 Oct. 14 Fri.	Kārtika..... 820	10 35	8 48	9 54	11 16	12 22	1.
898 Apr. 10 Mon.	Vaiśākha..... 821	10 16	9 41	—	—	10 51	1.1
898 Oct. 3 Tues.	Āśvina..... 821	14 9	13 31	—	—	14 47	1.3
899 Aug. 24 Fri.	Bhādrapada..... 822	16 4	15 41	—	—	16 27	0.5
900 Feb. 18 Mon.	Phalguṇa..... 822	9 7	7 22	8 33	9 41	10 52	0.
900 Aug. 13 Wed.	Bhādrapada..... 823	8 51	7 4	8 10	9 32	10 38	0.
901 Feb. 6 Fri.	Phalguṇa, (or, m. f.) Phalguṇa I..... 823	9 19	7 36	8 52	9 46	11 2	0.
901 Aug. 2 Sun.	Śrāvaṇa..... 824	23 31	21 59	23 14	23 48	25 12	0.
902 Dec. 17 Fri.	Pauṣa..... 825	17 45	17 22	—	—	18 8	0.5
903 June 12 Sun.	Āshāḍha..... 826	19 0	17 53	—	—	20 7	4.5
903 Dec. 7 Wed.	Mārgaśīrṣa..... 826	9 1	7 15	8 25	9 37	10 47	0.
904 May 31 Thur.	Jyēsthā..... 827	22 33	20 41	21 41	23 25	24 25	0.
904 Nov. 25 Sun.	Mārgaśīrṣa..... 827	20 17	18 32	19 43	20 51	22 2	0.
905 May 21 Tues.	Jyēsthā..... 828	9 13	7 57	—	—	10 29	6.0
907 Apr. 1 Wed.	Chaitra..... 830	9 32	7 47	8 58	10 6	11 17	0.
907 Sept. 24 Thur.	Āśvina..... 830	11 32	9 53	—	—	13 11	11.9
908 Mar. 20 Sun.	Chaitra..... 831	19 11	17 28	18 44	19 38	20 54	0.
908 Sept. 12 Mon.	Āśvina..... 831	24 23	22 34	23 39	25 7	26 12	0.

TABLE E.

A. D. Year, Month, and Day.		Hindu Month and Current Śaka Year. ["w. m. i." = with mean intercalations.]		Time measured from Lanka mean sunrise, taken as 6 A. M.						Number of twelfths eclipsed. ["t." = total eclipse.]
				Greatest phase. [i.e. mo- ment of full moon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.		
						Begin- ning.	End.			
									h. m.	
1	2	3	4	5	6	7	8			
909 Sept. 2 Sat.	Bhādrapada..... 832	16 46	16 4	—	—	17 28	1·6			
910 July 24 Tues.	Śrāvaṇa..... 833	22 7	21 19	—	—	22 55	2·2			
911 Jan. 17 Thur.	Māgha..... 833	13 22	11 37	12 47	13 57	15 7	t.			
911 July 14 Sun.	Śrāvaṇa..... 834	4 38	2 48	3 50	5 26	6 28	t.			
912 Jan. 7 Tues.	Māgha, (w. m. i.) Pausa II..... 834	3 22	1 36	2 46	3 58	5 8	t.			
912 July 2 Thur.	Aśhāḍha..... 835	5 38	4 8	—	—	7 8	8·9			
912 Dec. 26 Sat.	Pausa..... 835	19 4	18 41	—	—	19 27	0·5			
914 May 12 Thur.	Jyeshtha..... 837	8 57	7 24	—	—	10 30	10·1			
914 Nov. 5 Sat.	Kārttika..... 837	19 9	17 29	18 59	19 19	20 49	t.			
915 May 1 Mon.	Vaiśākha..... 838	25 37	23 47	24 48	26 26	27 27	t.			
915 Oct. 25 Wed.	Kārttika..... 838	18 21	16 33	17 38	19 4	20 9	t.			
916 Apr. 20 Sat.	Vaiśākha..... 839	17 55	17 5	—	—	18 45	2·4			
916 Oct. 13 Sun.	Kārttika..... 839	22 12	21 28	—	—	22 56	1·8			
918 Feb. 28 Sat.	Phālguna..... 840	16 34	14 51	16 6	17 2	18 17	t.			
918 Aug. 24 Mon.	Bhādrapada..... 841	16 42	14 56	16 6	17 18	18 28	t.			
919 Feb. 17 Wed.	Phālguna..... 841	17 6	15 22	16 34	17 38	18 50	t.			
919 Aug. 14 Sat.	Bhādrapada..... 842	6 58	5 14	6 27	7 29	8 42	t.			
920 Dec. 28 Thur.	Pausa..... 843	2 37	2 14	—	—	3 0	0·5			
921 June 23 Sat.	Āshāḍha..... 844	1 25	0 33	—	—	2 17	2·6			
921 Dec. 17 Mon.	Pausa..... 844	17 54	16 9	17 19	18 29	19 39	t.			
922 June 12 Wed.	Āshāḍha..... 845	5 25	3 34	4 35	6 15	7 16	t.			
922 Dec. 7 Sat.	Mārgaśīrsha..... 845	4 47	3 2	4 13	5 21	6 32	t.			
923 June 1 Sun.	Jyeshtha..... 846	16 29	15 4	—	—	17 54	7·9			
925 Apr. 11 Mon.	Vaiśākha..... 848	17 10	15 28	16 47	17 33	18 52	t.			
925 Oct. 4 Tues.	Āśvina..... 848	19 36	17 59	—	—	21 13	11·3			
926 Apr. 1 Sat.	Chaitra..... 849	2 31	0 46	1 56	3 6	4 16	t.			
926 Sept. 24 Sun.	Āśvina..... 849	8 36	6 46	7 50	9 22	10 26	t.			
927 Sept. 14 Fri.	Āśvina..... 850	0 53	0 2	—	—	1 44	2·5			
928 Aug. 4 Mon.	Śrāvaṇa..... 851	5 22	4 59	—	—	5 45	0·5			
929 Jan. 27 Tues.	Māgha..... 851	21 52	20 7	21 19	22 25	23 37	t.			
929 July 24 Fri.	Śrāvaṇa..... 852	11 19	9 31	10 37	12 1	13 7	t.			
930 Jan. 17 Sun.	Māgha..... 852	12 11	10 25	11 34	12 48	13 57	t.			
930 July 13 Tues.	Śrāvaṇa..... 853	12 8	10 33	—	—	13 43	10·8			
931 Jan. 7 Fri.	Māgha..... 853	3 53	3 32	—	—	4 14	0·4			
932 May 22 Tues.	Jyeshtha..... 855	16 20	14 52	—	—	17 48	8·5			
932 Nov. 16 Fri.	Mārgaśīrsha..... 855	3 6	1 28	—	—	4 44	11·7			
933 May 12 Sun.	Jyeshtha..... 856	9 10	7 18	8 19	10 1	11 2	t.			
933 Nov. 5 Tues.	Kārttika..... 856	2 23	0 34	1 39	3 7	4 12	t.			
934 May 2 Fri.	Vaiśākha..... 857	1 22	0 20	—	—	2 24	3·8			
934 Oct. 25 Sat.	Kārttika..... 857	6 24	5 36	—	—	7 12	2·2			
936 Mar. 10 Thur.	Chaitra..... 859	23 48	22 7	23 29	24 7	25 29	t.			
936 Sept. 3 Sat.	Bhādrapada..... 859	24 36	22 52	24 6	25 6	26 20	t.			
937 Feb. 27 Mon.	Phālguna..... 859	24 45	22 59	24 9	25 21	26 31	t.			
937 Aug. 24 Thur.	Bhādrapada..... 860	14 31	12 45	13 55	15 7	16 17	t.			
938 Feb. 17 Sat.	Phālguna..... 860	7 58	7 47	—	—	8 9	0·1			
939 Jan. 8 Tues.	Māgha, (w. m. i.) Māgha I..... 861	11 25	11 2	—	—	11 48	0·5			
939 July 4 Thur.	Āshāḍha..... 862	7 57	7 27	—	—	8 27	0·8			
939 Dec. 29 Sun.	Pausa..... 862	2 40	0 55	2 7	3 13	4 25	t.			
940 June 22 Mon.	Āshāḍha..... 863	12 15	10 25	11 27	13 3	14 5	t.			
940 Dec. 17 Thur.	Pausa..... 863	13 19	11 34	12 44	13 54	15 4	t.			

TABLE E.

A. D. Year, Month, and Day.	Hindu Month and Current Śaka Year. ["w.m.i." = with mean intercalations.]	Time measured from Lanka mean sunrise, taken as 5 A.M.						Number of twelfths eclipsed. ["t." = total eclipse.]
		Greatest phase. [i.e. mo- ment of fullmoon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.		
				Begin- ning.	End.			
							h. m.	
1	2	3	4	5	6	7	8	
941 June 11 Fri.	Āshāḍha.....	864	23 47	22 15	—	—	25 19	9.6
943 Apr. 22 Sat.	Vaiśākha.....	866	24 43	23 4	—	—	26 22	11.9
943 Oct. 16 Mon.	Kārttika.....	866	3 40	2 14	—	—	5 24	10.8
944 Apr. 11 Thur.	Vaiśākha.....	867	9 43	7 56	9 2	10 24	11 30	t.
944 Oct. 4 Fri.	Āśvina.....	867	16 55	15 5	16 8	17 42	18 45	t.
945 Sept. 24 Wed.	Āśvina.....	868	9 9	8 11	—	—	10 7	3.2
947 Feb. 8 Mon.	Phālguna.....	869	6 15	4 31	5 44	6 46	7 59	t.
947 Aug. 4 Wed.	Śrāvapa.....	870	18 6	16 29	17 30	18 42	19 52	t.
948 Jan. 25 Fri.	Māgha.....	870	20 57	19 10	20 18	21 36	22 44	t.
948 July 23 Sun.	Śrāvapa.....	871	18 41	17 0	18 24	18 58	20 22	t.
949 Jan. 17 Wed.	Māgha.....	871	12 36	12 13	—	—	12 59	0.5
950 June 2 Sun.	Jyeshtha.....	873	23 46	22 25	—	—	25 7	7.0
950 Nov. 27 Wed.	Mārgaśīrsha.....	873	11 7	9 30	—	—	12 44	11.5
951 May 23 Fri.	Jyeshtha.....	874	16 43	14 51	15 51	17 35	18 35	t.
951 Nov. 16 Sun.	Mārgaśīrsha.....	874	10 21	8 32	9 36	11 6	12 10	t.
952 May 12 Wed.	Jyeshtha.....	875	8 49	7 37	—	—	10 1	5.2
952 Nov. 4 Thur.	Kārttika.....	875	14 43	13 51	—	—	15 35	2.6
954 Mar. 22 Wed.	Chaitra.....	877	6 55	5 17	—	—	8 33	11.7
954 Sept. 15 Fri.	Āśvina.....	877	8 46	7 4	8 24	9 8	10 28	t.
955 Mar. 11 Sun.	Chaitra.....	878	8 11	6 24	7 30	8 52	9 58	t.
955 Sept. 4 Tues.	Bhādrapada.....	878	22 11	20 24	21 30	22 52	23 58	t.
956 Feb. 28 Thur.	Phālguna.....	878	16 1	15 30	—	—	16 32	0.9
957 Jan. 18 Sun.	Māgha.....	879	20 15	20 0	—	—	20 30	0.2
958 Jan. 8 Fri.	Māgha, (w.m.i.) Māgha I.....	880	11 24	9 39	10 51	11 57	13 9	t.
958 July 3 Sat.	Āshāḍha.....	881	19 9	17 20	18 26	19 52	20 58	t.
958 Dec. 28 Tues.	Pauṣa.....	881	21 44	19 59	21 9	22 19	23 29	t.
959 June 23 Thur.	Āshāḍha.....	882	7 6	5 29	—	—	8 43	11.2
961 May 3 Fri.	Vaiśākha.....	884	8 3	6 29	—	—	9 37	10.3
961 Oct. 26 Sat.	Kārttika.....	884	12 7	10 33	—	—	13 41	10.4
962 Apr. 22 Tues.	Vaiśākha.....	885	16 45	14 56	16 0	17 30	18 34	t.
962 Oct. 15 Wed.	Kārttika.....	885	25 24	23 34	24 35	26 13	27 14	t.
963 Apr. 11 Sat.	Vaiśākha.....	886	18 40	18 19	—	—	19 1	0.4
963 Oct. 5 Mon.	Āśvina.....	886	17 28	16 25	—	—	18 31	3.9
965 Feb. 18 Sat.	Phālguna.....	887	14 31	12 48	14 3	14 59	16 14	t.
965 Aug. 14 Mon.	Bhādrapada.....	888	24 58	23 15	24 33	25 23	26 41	t.
966 Feb. 8 Thur.	Phālguna.....	888	5 29	3 42	4 48	6 10	7 16	t.
966 Aug. 3 Fri.	Śrāvapa.....	889	25 18	23 33	24 45	25 51	27 3	t.
967 Jan. 28 Mon.	Māgha.....	889	21 16	20 46	—	—	21 46	0.8
968 June 13 Sat.	Āshāḍha.....	891	7 4	5 52	—	—	8 16	5.3
968 Dec. 7 Mon.	Mārgaśīrsha, (w.m.i.) Mārgaśīrsha II..	891	19 10	17 33	—	—	20 47	11.3
969 June 2 Wed.	Jyeshtha.....	892	24 12	22 20	23 20	25 4	26 4	t.
969 Nov. 26 Fri.	Mārgaśīrsha.....	892	18 25	16 36	17 40	19 10	20 14	t.
970 May 23 Mon.	Jyeshtha.....	893	16 7	14 47	—	—	17 27	6.8
970 Nov. 15 Tues.	Mārgaśīrsha.....	893	23 7	22 11	—	—	24 3	3.0
972 Apr. 1 Mon.	Chaitra.....	895	13 54	12 20	—	—	15 28	10.5
972 Sept. 25 Wed.	Āśvina.....	895	16 55	15 16	16 55	16 55	18 34	t.
973 Mar. 21 Fri.	Chaitra.....	896	15 37	13 48	14 52	16 22	17 26	t.
973 Sept. 15 Mon.	Āśvina.....	896	5 55	4 6	5 10	6 40	7 44	t.
974 Mar. 10 Tues.	Chaitra.....	897	23 59	23 16	—	—	24 42	1.7
976 Jan. 19 Wed.	Māgha.....	898	20 2	18 18	19 30	20 34	21 46	t.

TABLE E.

A. D. Year, Month, and Day.	Hindu Month and Current Śaka Year. ["w. m. i." = with mean intercalations.]	Time measured from Lāika mean sunrise, taken as 6 A. M.						Number of twelfths eclipsed. ["t." = total eclipse.]
		Greatest phase. [i. e. mo- ment of full moon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.		
				Begin- ning.	End.			
							h. m.	
1	2	3	4	5	6	7	8	
976 July 14 Fri.	Śrāvāṇa 899	2 7	0 21	1 30	2 44	3 53	t.	
977 Jan. 8 Mon.	Māgha, (w. m. i.) Māgha I..... 899	6 8	4 23	5 33	6 43	7 53	t.	
977 July 3 Tues.	Āshāḍha 900	14 27	12 45	14 5	14 49	16 9	t.	
979 May 14 Wed.	Jyeshtha. 902	15 22	13 53	—	—	16 51	8·8	
979 Nov. 6 Thur.	Kārttika. 902	20 36	19 2	—	—	22 10	10·3	
980 May 2 Sun.	Vaiśākha. 903	23 37	21 47	22 48	24 26	25 27	t.	
980 Oct. 26 Tues.	Kārttika. 903	10 1	8 11	9 12	10 50	11 51	t.	
981 Apr. 22 Fri.	Vaiśākha. 904	1 23	0 36	—	—	2 10	2·1	
981 Oct. 16 Sun.	Kārttika. 904	1 57	0 51	—	—	3 3	4·3	
983 Mar. 1 Thur.	Phālguna. 905	22 40	20 58	22 17	23 3	24 22	t.	
983 Aug. 26 Sun.	Bhādrapada..... 906	7 54	6 16	—	—	9 32	11·8	
984 Feb. 19 Tues.	Phālguna. 906	13 58	12 10	13 15	14 41	15 46	t.	
984 Aug. 14 Thur.	Bhādrapada..... 907	8 6	6 19	7 26	8 46	9 53	t.	
985 Feb. 8 Sun.	Phālguna. 907	5 49	5 14	—	—	6 24	1·1	
985 Aug. 3 Mon.	Śrāvāṇa..... 908	11 30	11 15	—	—	11 45	0·2	
986 June 24 Thur.	Āshāḍha 909	14 31	13 20	—	—	15 33	3·7	
986 Dec. 19 Sun.	Pausha 909	3 14	1 38	—	—	4 50	11·1	
987 June 14 Tues.	Āshāḍha 910	7 40	5 49	6 50	8 30	9 31	t.	
987 Dec. 8 Thur.	Mārgaśīrsha, (w. m. i.) Mārgaśīrsha II.. 910	2 39	0 49	1 53	3 25	4 29	t.	
988 June 2 Sat.	Jyeshtha. 911	23 24	21 56	—	—	24 52	8·5	
988 Nov. 26 Mon.	Mārgaśīrsha..... 911	7 40	6 43	—	—	8 37	3·1	
990 Apr. 12 Sat.	Vaiśākha..... 913	20 46	19 16	—	—	22 16	9·1	
990 Oct. 6 Mon.	Āśvina..... 913	25 16	23 39	—	—	26 53	11·5	
991 Apr. 1 Wed.	Chaitra..... 914	22 54	21 4	22 6	23 42	24 44	t.	
991 Sept 26 Sat.	Āśvina..... 914	13 48	11 58	13 2	14 34	15 38	t.	
992 Mar. 21 Mon.	Chaitra..... 915	7 49	6 55	—	—	8 43	2·8	
992 Sept. 14 Wed.	Āśvina..... 915	19 27	18 59	—	—	19 55	0·7	
994 Jan. 30 Tues.	Māgha 916	4 37	2 53	4 7	5 7	6 21	t.	
994 July 25 Wed.	Śrāvāṇa..... 917	9 15	7 32	8 48	9 42	10 58	t.	
995 Jan. 19 Sat.	Māgha..... 917	14 24	12 38	13 48	15 0	16 10	t.	
995 July 14 Sun.	Śrāvāṇa..... 918	21 52	20 7	21 18	22 26	23 37	t.	
997 May 24 Mon.	Jyeshtha 920	22 34	21 13	—	—	23 55	7·0	
997 Nov. 17 Wed.	Mārgaśīrsha 920	5 9	3 35	—	—	6 43	10·2	
998 May 14 Sat.	Jyeshtha. 921	6 26	4 34	5 35	7 17	8 18	t.	
998 Nov. 6 Sun.	Kārttika..... 921	18 46	16 56	17 57	19 35	20 36	t.	
999 May 3 Wed.	Vaiśākha..... 922	7 56	6 54	—	—	8 58	3·7	
999 Oct. 27 Fri.	Kārttika..... 922	10 36	9 28	—	—	11 44	4·6	
1001 Mar. 12 Wed.	Chaitra..... 924	6 45	5 5	6 33	6 57	8 25	t.	
1001 Sept. 5 Fri.	Bhādrapada.. 924	15 1	13 26	—	—	16 36	10·6	
1002 Mar. 1 Sun.	Phālguna..... 924	22 20	20 31	21 35	23 5	24 9	t.	
1002 Aug. 25 Tues.	Bhādrapada..... 925	15 1	13 12	14 16	15 46	16 50	t.	
1003 Feb. 19 Fri.	Phālguna..... 925	14 15	13 32	—	—	14 58	1·7	
1003 Aug. 14 Sat.	Bhādrapada..... 926	18 41	17 57	—	—	19 25	1·8	
1004 July 4 Tues.	Āshāḍha..... 927	21 56	21 10	—	—	22 42	2·0	
1004 Dec. 29 Fri.	Pausha..... 927	11 18	9 43	—	—	12 53	10·8	
1005 June 24 Sun.	Āshāḍha..... 928	15 10	13 20	14 22	15 58	17 0	t.	
1005 Dec. 18 Tues.	Pausha..... 928	10 52	9 2	10 6	11 38	12 42	t.	
1006 June 14 Fri.	Āshāḍha..... 929	6 37	5 4	—	—	8 10	10·1	
1006 Dec. 7 Sat.	Mārgaśīrsha, (w. m. i.) Mārgaśīrsha II.. 929	16 11	15 13	—	—	17 9	3·2	
1008 Apr. 23 Fri.	Vaiśākha..... 931	3 28	2 5	—	—	4 51	7·5	

TABLE E.

A. D. Year, Month, and Day.	Hindu Month and Current Śaka Year. ["w. m. i." = with mean intercalations.]	Time measured from Lāṅkā mean sunrise, taken as 5 A. M.						Number of twelfths eclipsed. ["t." = total eclipse.]
		Greatest phase. [i.e. moment of full moon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.		
				Begin- ning.	End.			
							h. m.	
1	2	3	4	5	6	7	8	
1008 Oct. 17 Sun.	Kārttika 931	9 47	8 11	—	—	11 23	11.0	
1009 Apr. 12 Tues.	Vaiśākha 932	6 7	4 16	5 17	6 57	7 58	t.	
1009 Oct. 6 Thur.	Āśvina 932	21 46	19 56	20 58	22 34	23 36	t.	
1010 Apr. 1 Sat.	Chaitra 933	15 35	14 31	—	—	16 39	4.0	
1010 Sept. 26 Tues.	Āśvina 933	2 54	2 12	—	—	3 36	1.6	
1012 Feb. 10 Sun.	Phālguna 934	13 3	11 20	12 36	13 30	14 46	t.	
1012 Aug. 4 Mon.	Śrāvaṇa 935	16 31	14 52	16 24	16 38	18 10	t.	
1013 Jan. 29 Thur.	Māgha 935	22 38	20 52	22 1	23 15	24 24	t.	
1013 July 25 Sat.	Śrāvaṇa 936	5 23	3 36	4 42	6 4	7 10	t.	
1014 July 14 Wed.	Śrāvaṇa 937	22 12	21 51	—	—	22 33	0.4	
1015 June 5 Sun.	Jyeshtha 938	5 39	4 27	—	—	6 51	5.2	
1015 Nov. 28 Mon.	Mārgaśīrsha 938	13 46	12 13	—	—	15 19	10.0	
1016 May 24 Thur.	Jyeshtha 939	13 8	11 16	12 16	14 0	15 0	t.	
1016 Nov. 17 Sat.	Mārgaśīrsha 939	3 31	1 40	2 41	4 21	5 22	t.	
1017 May 13 Mon.	Jyeshtha 940	14 29	13 16	—	—	15 42	5.4	
1017 Nov. 6 Wed.	Kārttika 940	19 22	18 12	—	—	20 32	4.9	
1019 Mar. 23 Mon.	Chaitra 942	14 45	13 8	—	—	16 22	11.3	
1019 Sept. 16 Wed.	Āśvina 942	22 16	20 45	—	—	23 47	9.4	
1020 Mar. 12 Sat.	Chaitra 943	6 35	4 45	5 48	7 22	8 25	t.	
1020 Sept. 4 Sun.	Bhādrapada 943	22 7	20 17	21 19	22 55	23 57	t.	
1021 Mar. 1 Wed.	Phālguna 943	22 32	21 43	—	—	23 21	2.3	
1021 Aug. 25 Fri.	Bhādrapada 944	2 4	1 8	—	—	3 0	3.0	
1022 July 16 Mon.	Śrāvaṇa 945	5 28	4 58	—	—	5 58	0.8	
1023 Jan. 9 Wed.	Māgha 945	19 16	17 41	—	—	20 51	10.7	
1023 July 5 Fri.	Āshāḍha 946	22 38	20 49	21 54	23 22	24 27	t.	
1023 Dec. 29 Sun.	Pauṣa 946	19 5	17 15	18 18	19 52	20 55	t.	
1024 June 24 Wed.	Āshāḍha 947	13 49	12 11	—	—	15 27	11.7	
1024 Dec. 17 Thur.	Pauṣa 947	24 49	23 50	—	—	25 48	3.4	
1026 May 4 Wed.	Vaiśākha 949	10 5	8 50	—	—	11 20	5.8	
1026 Oct. 28 Fri.	Kārttika 949	18 18	16 44	—	—	19 52	10.5	
1027 Apr. 23 Sun.	Vaiśākha 950	13 11	11 19	12 20	14 2	15 3	t.	
1027 Oct. 18 Wed.	Kārttika 950	5 56	4 6	5 7	6 45	7 46	t.	
1028 Apr. 11 Thur.	Vaiśākha 951	23 10	21 58	—	—	24 22	5.3	
1028 Oct. 6 Sun.	Āśvina 951	10 30	9 42	—	—	11 18	2.2	
1030 Feb. 20 Fri.	Phālguna 952	21 21	19 39	20 59	21 43	23 3	t.	
1030 Aug. 15 Sat.	Bhādrapada 953	23 51	22 15	—	—	25 27	10.9	
1031 Feb. 10 Wed.	Phālguna 953	6 38	4 51	5 59	7 17	8 25	t.	
1031 Aug. 5 Thur.	Śrāvaṇa 954	12 59	11 9	12 13	13 45	14 49	t.	
1032 July 25 Tues.	Śrāvaṇa 955	5 48	5 3	—	—	6 33	1.9	
1033 June 15 Fri.	Āshāḍha 956	12 44	11 46	—	—	13 42	3.3	
1033 Dec. 8 Sat.	Pauṣa, (w. m. i.) Pauṣa I. 956	22 28	20 54	—	—	24 2	10.2	
1034 June 4 Tues.	Jyeshtha 957	19 43	17 52	18 53	20 33	21 34	t.	
1034 Nov. 28 Thur.	Mārgaśīrsha 957	12 23	10 32	11 33	13 13	14 14	t.	
1035 May 24 Sat.	Jyeshtha 958	20 54	19 31	—	—	22 17	7.4	
1035 Nov. 18 Tues.	Mārgaśīrsha 958	4 4	2 53	—	—	5 15	5.1	
1037 Apr. 2 Sat.	Chaitra 960	22 29	20 55	—	—	24 3	10.4	
1037 Sept. 27 Tues.	Āśvina 960	5 34	4 6	—	—	7 2	8.6	
1038 Mar. 23 Thur.	Chaitra 961	14 41	12 51	13 52	15 30	16 31	t.	
1038 Sept. 16 Sat.	Āśvina 961	5 20	3 29	4 30	6 10	7 11	t.	
1039 Mar. 13 Tues.	Chaitra 962	6 36	5 41	—	—	7 31	2.9	

TABLE E.

A. D. Year, Month, and Day.	Hindu Month and Current Śaka Year. ["w. m. i." = with mean intercalations.]	Time measured from Laika mean sunrise, taken as 6 A. M.					Number of twelfths eclipsed. ["t." = total eclipse.]
		Greatest phase. [i.e. moment of fullmoon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.	
				Begin- ning.	End.		
1	2	3	4	5	6	7	8
1039 Sept. 5 Wed.	Bhādrapada..... 962	9 30	8 26	—	—	10 34	4·0
1041 Jan. 20 Tues.	Māgha..... 963	3 11	1 37	—	—	4 45	10·5
1041 July 16 Thur.	Śrāvaṇa..... 964	6 9	4 23	5 31	6 47	7 55	t.
1042 Jan. 9 Sat.	Māgha..... 964	3 13	1 23	2 27	3 59	5 3	t.
1042 July 5 Mon.	Āshāḍha..... 965	20 59	19 17	20 35	21 23	22 41	t.
1042 Dec. 29 Wed.	Pausha..... 965	9 26	8 26	—	—	10 26	3·5
1044 May 14 Mon.	Jyeshtha..... 967	16 38	15 33	—	—	17 43	4·2
1044 Nov. 8 Thur.	Kārttika, (w. m. i.) Kārttika II..... 967	2 54	1 20	—	—	4 28	10·2
1045 May 3 Fri.	Vaiśākha..... 968	20 7	18 15	19 15	20 59	21 59	t.
1045 Oct. 28 Mon.	Kārttika..... 968	14 5	12 15	13 16	14 54	15 55	t.
1046 Apr. 23 Wed.	Vaiśākha..... 969	6 44	5 25	—	—	8 3	6·6
1046 Oct. 17 Fri.	Kārttika..... 969	18 13	17 20	—	—	19 6	2·7
1048 Mar. 3 Thur.	Phālguna..... 970	5 32	3 52	5 18	5 46	7 12	t.
1048 Aug. 26 Fri.	Bhādrapada..... 971	7 23	5 51	—	—	8 55	9·6
1049 Feb. 20 Mon.	Phālguna..... 971	14 35	12 48	13 53	15 17	16 22	t.
1049 Aug. 15 Tues.	Bhādrapada..... 972	20 43	18 53	19 54	21 32	22 33	t.
1050 Aug. 5 Sun.	Śrāvaṇa..... 973	13 28	12 30	—	—	14 26	3·2
1051 June 26 Wed.	Āshāḍha..... 974	19 45	19 2	—	—	20 28	1·7
1051 Dec. 20 Fri.	Pausha..... 974	7 11	5 38	—	—	8 44	10·0
1052 June 15 Mon.	Āshāḍha..... 975	2 16	0 26	1 29	3 3	4 6	t.
1052 Dec. 8 Tues.	Mārgaśīrsha, (w. m. i.) Pausha I..... 975	21 16	19 25	20 26	22 6	23 7	t.
1053 June 4 Fri.	Jyeshtha..... 976	3 21	1 50	—	—	4 52	9·4
1053 Nov. 28 Sun.	Mārgaśīrsha..... 976	12 51	11 40	—	—	14 2	5·0
1055 Apr. 14 Tues.	Vaiśākha..... 978	6 15	4 44	—	—	7 46	9·3
1055 Oct. 8 Sun.	Āśvina..... 978	13 6	11 42	—	—	14 30	7·7
1056 Apr. 2 Tues.	Chaitra..... 979	22 41	20 50	21 51	23 31	24 32	t.
1056 Sept. 26 Thur.	Āśvina..... 979	12 44	10 53	11 54	13 34	14 35	t.
1057 Mar. 23 Sun.	Chaitra..... 980	14 31	13 29	—	—	15 33	3·8
1057 Sept. 15 Mon.	Āśvina..... 980	17 12	16 1	—	—	18 23	5·0
1059 Jan. 31 Sun.	Māgha..... 981	10 57	9 24	—	—	12 30	9·9
1059 July 27 Tues.	Śrāvaṇa..... 982	13 45	12 1	13 15	14 15	15 29	t.
1060 Jan. 20 Thur.	Māgha..... 982	11 18	9 28	10 30	12 6	13 8	t.
1060 July 16 Sun.	Śrāvaṇa..... 983	4 10	2 24	3 35	4 45	5 56	t.
1061 Jan. 8 Mon.	Māgha..... 983	18 0	16 58	—	—	19 2	3·7
1062 May 25 Sat.	Jyeshtha..... 985	23 7	22 18	—	—	23 56	2·3
1062 Nov. 19 Tues.	Mārgaśīrsha..... 985	11 41	10 8	—	—	13 14	10·1
1063 May 15 Thur.	Jyeshtha..... 986	3 5	1 14	2 15	3 55	4 56	t.
1063 Nov. 8 Sat.	Kārttika, (w. m. i.) Kārttika II..... 986	22 24	20 34	21 35	23 13	24 14	t.
1064 May 3 Mon.	Vaiśākha..... 987	14 10	12 43	—	—	15 37	8·3
1064 Oct. 28 Thur.	Kārttika..... 987	1 59	1 2	—	—	2 56	3·1
1066 Mar. 14 Tues.	Chaitra..... 989	13 31	11 54	—	—	15 8	11·4
1066 Sept. 6 Wed.	Bhādrapada..... 989	15 2	13 34	—	—	16 30	8·6
1067 Mar. 3 Sat.	Phālguna..... 989	22 19	20 30	21 35	23 3	24 8	t.
1067 Aug. 27 Mon.	Bhādrapada..... 990	4 34	2 43	3 44	5 24	6 25	t.
1068 Feb. 20 Wed.	Phālguna..... 990	24 0	23 32	—	—	24 28	0·7
1068 Aug. 15 Fri.	Bhādrapada..... 991	21 18	20 11	—	—	22 25	4·4
1069 Dec. 30 Wed.	Pausha..... 992	15 52	14 19	—	—	17 25	10·1
1070 June 26 Sat.	Āshāḍha..... 993	8 48	7 1	8 7	9 29	10 35	t.
1070 Dec. 20 Mon.	Pausha..... 993	6 9	4 18	5 19	6 59	8 0	t.
1071 June 15 Wed.	Āshāḍha..... 994	9 44	8 7	—	—	11 21	11·2

TABLE E.

A.D. Year, Month, and Day.	Hindu Month and Current Śaka Year. ["w. m. i." = with mean intercalations.]	Time measured from Lāika mean sunrise, taken as 6 A.M.						Number of twelfths eclipsed. ["t." = total eclipse.]
		Greatest phase. [i.e. mo- ment of full moon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.		
				Begin- ning.	End.			
							h. m.	
1	2	3	4	5	6	7	8	
1071 Dec. 9 Fri.	Mārgaśīrsha, (w. m. i.) Pausa I.....	994	21 42	20 31	—	—	22 53	5.1
1073 Apr. 24 Wed.	Vaiśākha.....	996	13 51	12 26	—	—	15 16	7.9
1073 Oct. 18 Fri.	Kārttika.....	996	20 46	19 25	—	—	22 7	7.0
1074 Apr. 14 Mon.	Vaiśākha.....	997	6 29	4 37	5 38	7 20	8 21	t.
1074 Oct. 7 Tues.	Āśvina.....	997	20 21	18 29	19 30	21 12	22 13	t.
1075 Apr. 3 Fri.	Chaitra.....	998	22 21	21 11	—	—	23 31	4.8
1075 Sept. 26 Sat.	Āśvina.....	998	25 2	23 46	—	—	26 18	6.0
1077 Feb. 10 Fri.	Phālguna.....	999	18 41	17 9	—	—	20 13	9.6
1077 Aug. 6 Sun.	Śrāvaṇa.....	1000	21 21	19 41	21 9	21 33	23 1	t.
1078 Jan. 30 Tues.	Māgha.....	1000	19 21	17 31	18 32	20 10	21 11	t.
1078 July 27 Fri.	Śrāvaṇa.....	1001	11 25	9 37	10 43	12 7	13 13	t.
1079 Jan. 20 Sun.	Māgha.....	1001	2 29	1 25	—	—	3 33	4.0
1080 June 5 Fri.	Jyeshtha.....	1003	5 36	5 15	—	—	5 57	0.4
1080 Nov. 29 Sun.	Mārgaśīrsha.....	1003	20 22	18 50	—	—	21 54	9.8
1081 May 25 Tues.	Jyeshtha.....	1004	10 3	8 13	9 15	10 51	11 53	t.
1081 Nov. 19 Fri.	Mārgaśīrsha.....	1004	6 46	4 55	5 56	7 36	8 37	t.
1082 May 14 Sat.	Jyeshtha.....	1005	21 33	20 1	—	—	23 5	9.7
1082 Nov. 8 Tues.	Kārttika, (w. m. i.) Kārttika II.....	1005	9 55	8 57	—	—	10 53	8.3
1084 Mar. 24 Sun.	Chaitra.....	1007	21 23	19 49	—	—	22 57	10.4
1084 Sept. 16 Mon.	Āśvina.....	1007	22 53	21 28	—	—	24 18	7.8
1085 Mar. 14 Fri.	Chaitra.....	1008	5 52	4 2	5 5	6 39	7 42	t.
1085 Sept. 6 Sat.	Bhādrapada.....	1008	12 31	10 39	11 40	13 22	14 23	t.
1086 Mar. 3 Tues.	Phālguna.....	1008	7 23	6 43	—	—	8 3	1.5
1086 Aug. 27 Thur.	Bhādrapada.....	1009	5 12	3 59	—	—	6 25	5.5
1088 Jan. 10 Mon.	Māgha.....	1010	24 34	23 1	—	—	26 7	10.0
1088 July 6 Thur.	Āshāḍha.....	1011	15 19	13 35	14 48	15 50	17 3	t.
1088 Dec. 30 Sat.	Pausa.....	1011	15 3	13 12	14 13	15 53	16 54	t.
1089 June 25 Mon.	Āshāḍha.....	1012	16 3	14 20	15 38	16 28	17 46	t.
1089 Dec. 20 Thur.	Pausa.....	1012	6 35	5 24	—	—	7 46	5.0
1091 May 5 Mon.	Vaiśākha.....	1014	21 26	20 8	—	—	22 44	6.4
1091 Oct. 30 Thur.	Kārttika.....	1014	4 30	3 12	—	—	5 48	6.5
1092 Apr. 24 Sat.	Vaiśākha.....	1015	14 15	12 23	13 23	15 7	16 7	t.
1092 Oct. 18 Mon.	Kārttika.....	1015	4 7	2 15	3 15	4 59	5 59	t.
1093 Apr. 14 Thur.	Vaiśākha.....	1016	6 2	4 47	—	—	7 17	5.9
1093 Oct. 7 Fri.	Āśvina.....	1016	9 1	7 42	—	—	10 20	6.7
1095 Feb. 22 Thur.	Phālguna.....	1017	2 11	0 41	—	—	3 41	8.9
1095 Aug. 18 Sat.	Bhādrapada.....	1018	5 2	3 26	—	—	6 38	11.0
1096 Feb. 11 Mon.	Phālguna.....	1018	3 15	1 25	2 26	4 4	5 5	t.
1096 Aug. 6 Wed.	Śrāvaṇa.....	1019	18 42	16 52	17 56	19 28	20 32	t.
1097 Jan. 30 Fri.	Māgha.....	1019	10 54	9 48	—	—	12 0	4.3
1098 Dec. 11 Sat.	Pausa.....	1021	5 8	3 35	—	—	6 41	9.9
1099 June 5 Sun.	Jyeshtha.....	1022	16 54	15 6	16 12	17 36	18 42	t.
1099 Nov. 30 Wed.	Mārgaśīrsha.....	1022	15 7	13 17	14 18	15 56	16 57	t.
1100 May 25 Fri.	Jyeshtha.....	1023	4 58	3 21	—	—	6 35	11.5
1100 Nov. 18 Sun.	Mārgaśīrsha.....	1023	17 56	16 56	—	—	18 56	3.5
1102 Apr. 5 Sat.	Chaitra.....	1025	5 2	3 31	—	—	6 33	9.2
1102 Sept. 28 Sun.	Āśvina.....	1025	6 49	5 29	—	—	8 9	6.9
1103 Mar. 25 Wed.	Chaitra.....	1026	13 13	11 23	12 24	14 2	15 3	t.
1103 Sept. 17 Thur.	Āśvina.....	1026	20 40	18 48	19 48	21 32	22 32	t.
1104 Mar. 13 Sun.	Chaitra.....	1027	14 38	13 49	—	—	15 27	2.3

TABLE E.

A. D. Year, Month, and Day.	Hindu Month and Current Śaka Year. ["w. m. t." = with mean intercalations.]	Time measured from Lāṅkā mean sunrise, taken as 6 A. M.						Number of twelfths eclipsed. ["t." = total eclipse.]
		Greatest phase. [i.e. mo- ment of full moon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.		
				Begin- ning.	End.			
							h. m.	
1	2	3	4	5	6	7	8	
1104 Sept. 6 Tues.	Bhādrapada 1027	13 10	11 52	—	—	14 28	6·5	
1106 Jan. 21 Sun.	Māgha..... 1028	9 10	7 37	—	—	10 43	10·0	
1106 July 17 Tues.	Śrāvaṇa 1029	21 57	20 17	21 43	22 11	23 37	t.	
1107 Jan. 10 Thur.	Māgha..... 1029	23 58	22 7	23 8	24 48	25 49	t.	
1107 July 6 Sat.	Āshāḍha..... 1030	22 32	20 46	21 56	23 8	24 18	t.	
1107 Dec. 31 Tues.	Māgha..... 1030	15 24	14 14	—	—	16 34	4·9	
1109 May 16 Sun.	Jyeshtha..... 1032	4 53	3 43	—	—	6 7	5·2	
1109 Nov. 9 Tues.	Kārttika..... 1032	12 25	11 9	—	—	13 41	6·0	
1110 May 5 Thur.	Vaiśākha..... 1033	21 56	20 4	21 5	22 47	23 48	t.	
1110 Oct. 29 Sat.	Kārttika..... 1033	11 58	10 6	11 7	12 49	13 50	t.	
1111 Apr. 25 Tues.	Vaiśākha 1034	13 39	12 16	—	—	15 2	7·4	
1111 Oct. 18 Wed.	Kārttika..... 1034	17 10	15 48	—	—	18 32	7·3	
1113 Mar. 4 Tues.	Phālguna 1035	9 36	8 10	—	—	11 2	8·1	
1113 Aug. 28 Thur.	Bhādrapada..... 1036	12 25	11 22	—	—	14 28	9·9	
1114 Feb. 21 Sat.	Phālguna..... 1036	11 0	9 9	10 10	11 50	12 51	t.	
1114 Aug. 18 Tues.	Bhādrapada..... 1037	2 8	0 18	1 19	2 57	3 58	t.	
1115 Feb. 10 Wed.	Phālguna..... 1037	19 13	18 4	—	—	20 22	4·7	
1115 Aug. 7 Sat.	Śrāvaṇa..... 1038	8 33	7 57	—	—	9 9	1·2	
1116 Dec. 21 Thur.	Pauṣa..... 1039	13 55	12 23	—	—	15 27	9·7	
1117 June 15 Fri.	Āshāḍha..... 1040	23 52	22 6	23 17	24 27	25 38	t.	
1117 Dec. 10 Mon.	Pauṣa..... 1040	23 34	21 43	22 44	24 24	25 25	t.	
1118 June 5 Wed.	Jyeshtha..... 1041	12 16	10 33	11 51	12 41	13 59	t.	
1118 Nov. 30 Sat.	Mārgaśīrṣa..... 1041	1 57	0 56	—	—	2 58	3·6	
1120 Apr. 15 Thur.	Vaiśākha..... 1043	12 38	11 13	—	—	14 3	7·9	
1120 Oct. 8 Fri.	Āśvina..... 1043	15 0	13 42	—	—	16 18	6·4	
1121 Apr. 4 Mon.	Chaitra..... 1044	20 29	18 38	19 39	21 19	22 20	t.	
1121 Sept. 28 Wed.	Āśvina..... 1044	4 54	3 2	4 2	5 46	6 46	t.	
1122 Mar. 24 Fri.	Chaitra..... 1045	21 45	20 45	—	—	22 45	3·5	
1122 Sept. 17 Sun.	Āśvina..... 1045	21 16	19 54	—	—	22 38	7·3	
1124 Feb. 1 Fri.	Māgha..... 1046	17 41	16 9	—	—	19 13	9·7	
1124 July 28 Mon.	Śrāvaṇa..... 1047	4 35	3 0	—	—	6 10	10·6	
1125 Jan. 21 Wed.	Māgha..... 1047	8 42	6 51	7 52	9 32	10 33	t.	
1125 July 17 Fri.	Śrāvaṇa..... 1048	5 8	3 19	4 25	5 51	6 57	t.	
1126 Jan. 10 Sun.	Māgha..... 1048	24 9	22 58	—	—	25 20	5·0	
1126 July 6 Tues.	Āshāḍha..... 1049	8 50	8 19	—	—	9 21	0·9	
1127 May 27 Fri.	Jyeshtha..... 1050	12 23	11 23	—	—	13 23	3·5	
1127 Nov. 20 Sun.	Mārgaśīrṣa..... 1050	20 19	19 4	—	—	21 34	5·9	
1128 May 16 Wed.	Jyeshtha..... 1051	5 30	3 39	4 40	6 20	7 21	t.	
1128 Nov. 8 Thur.	Kārttika..... 1051	19 58	18 6	19 7	20 49	21 50	t.	
1129 May 5 Sun.	Vaiśākha..... 1052	21 3	19 34	—	—	22 32	8·8	
1129 Oct. 29 Tues.	Kārttika..... 1052	1 28	0 4	—	—	2 52	7·6	
1131 Mar. 15 Sun.	Chaitra..... 1054	16 50	15 30	—	—	18 10	6·9	
1131 Sept. 8 Tues.	Bhādrapada..... 1054	20 53	19 24	—	—	22 22	8·7	
1132 Mar. 3 Thur.	Phālguna..... 1054	18 45	16 53	17 54	19 36	20 37	t.	
1132 Aug. 28 Sun.	Bhādrapada..... 1055	9 35	7 44	8 45	10 25	11 26	t.	
1133 Feb. 21 Tues.	Phālguna..... 1055	3 29	2 16	—	—	4 42	5·5	
1133 Aug. 17 Thur.	Bhādrapada..... 1056	15 31	14 37	—	—	16 25	2·8	
1135 Jan. 1 Tues.	Pauṣa..... 1057	22 45	21 14	—	—	24 16	9·5	
1135 June 27 Thur.	Āshāḍha..... 1058	6 47	5 5	6 24	7 10	8 29	t.	
1135 Dec. 22 Sun.	Pauṣa..... 1058	8 1	6 10	7 11	8 51	9 52	t.	

TABLE E.

A.D. Year, Month, and Day.	Hindu Month and Current Śaka Year. ["w.m.i." = with mean intercalations.]	Time measured from Lanka mean sunrise, taken as 6 A.M.					Number of twelfths eclipsed. ["t." = total eclipse.]
		Greatest phase. [i.e. mo- ment of full moon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.	
				Begin- ning.	End.		
1	2	3	4	5	6	7	8
1136 June 15 Mon.	Āshāḍha..... 1059	19 39	17 53	19 3	20 15	21 25	t.
1136 Dec. 10 Thur.	Pausha..... 1059	10 2	8 59	—	—	11 5	3·9
1138 Apr. 26 Tues.	Vaiśākha..... 1061	20 2	18 44	—	—	21 20	6·5
1138 Oct. 19 Wed.	Kārttika..... 1061	23 20	22 5	—	—	24 35	5·9
1139 Apr. 16 Sun.	Vaiśākha..... 1062	3 34	1 42	2 42	4 26	5 26	t.
1139 Oct. 9 Mon.	Kārttika..... 1062	13 21	11 29	12 29	14 13	15 13	t.
1140 Apr. 4 Thur.	Chaitra..... 1063	4 41	3 30	—	—	5 52	5·0
1140 Sept. 28 Sat.	Āsvina..... 1063	5 28	4 3	—	—	6 53	7·9
1142 Feb. 12 Thur.	Phālguna..... 1064	2 7	0 36	—	—	3 38	9·3
1142 Aug. 8 Sat.	Śrāvapa..... 1065	11 20	9 50	—	—	12 50	9·0
1143 Feb. 1 Mon.	Māgha..... 1065	17 23	15 31	16 32	18 14	19 15	t.
1143 July 28 Wed.	Śrāvapa..... 1066	11 41	9 51	10 52	12 30	13 31	t.
1144 Jan. 22 Sat.	Māgha..... 1066	8 51	7 39	—	—	10 3	5·2
1144 July 16 Sun.	Śrāvapa..... 1067	15 47	14 56	—	—	16 38	2·5
1145 June 6 Wed.	Jyeshtha..... 1068	19 48	19 2	—	—	20 34	2·0
1145 Dec. 1 Sat.	Mārgasīrsha..... 1068	4 20	3 6	—	—	5 34	5·6
1146 May 27 Mon.	Jyeshtha..... 1069	13 0	11 10	12 13	13 47	14 50	t.
1146 Nov. 20 Wed.	Mārgasīrsha..... 1069	4 2	2 10	3 11	4 53	5 54	t.
1147 May 17 Sat.	Jyeshtha..... 1070	4 21	2 47	—	—	5 55	10·4
1147 Nov. 9 Sun.	Kārttika..... 1070	9 56	8 31	—	—	11 21	7·9
1149 Mar. 25 Fri.	Chaitra..... 1072	23 54	22 39	—	—	25 9	5·9
1149 Sept. 19 Mon.	Āsvina..... 1072	4 58	3 34	—	—	6 22	7·6
1150 Mar. 15 Wed.	Chaitra..... 1073	2 19	0 27	1 27	3 11	4 11	t.
1150 Sept. 8 Fri.	Bhādrapada..... 1073	17 12	15 20	16 21	18 3	19 4	t.
1151 Mar. 4 Sun.	Phālguna..... 1073	11 33	10 16	—	—	12 50	6·2
1151 Aug. 28 Tues.	Bhādrapada..... 1074	22 28	21 24	—	—	23 32	4·0
1153 Jan. 12 Mon.	Māgha..... 1075	7 20	5 49	—	—	8 51	9·3
1153 July 7 Tues.	Āshāḍha..... 1076	13 50	12 13	—	—	15 27	11·5
1154 Jan. 1 Fri.	Pausha..... 1076	16 22	14 31	15 32	17 12	18 13	t.
1154 June 27 Sun.	Āshāḍha..... 1077	3 0	1 12	2 17	3 43	4 48	t.
1154 Dec. 21 Tues.	Pausha..... 1077	18 7	17 4	—	—	19 10	3·9
1155 June 16 Thur.	Āshāḍha..... 1078	20 0	19 30	—	—	20 30	0·8
1156 May 7 Mon.	Vaiśākha..... 1079	3 16	2 7	—	—	4 25	4·7
1156 Oct. 30 Tues.	Kārttika..... 1079	7 43	6 29	—	—	8 57	5·6
1157 Apr. 26 Fri.	Vaiśākha..... 1080	10 27	8 35	9 36	11 18	12 19	t.
1157 Oct. 19 Sat.	Kārttika..... 1080	21 48	19 56	20 56	22 40	23 40	t.
1158 Apr. 15 Tues.	Vaiśākha..... 1081	11 32	10 14	—	—	12 50	6·5
1158 Oct. 9 Thur.	Āsvina..... 1081	13 51	12 22	—	—	15 20	8·7
1160 Feb. 23 Tues.	Phālguna..... 1082	10 23	8 53	—	—	11 53	8·9
1160 Aug. 18 Thur.	Bhādrapada..... 1083	18 11	16 49	—	—	19 33	7·2
1161 Feb. 12 Sun.	Phālguna..... 1083	1 56	0 4	1 5	2 47	3 48	t.
1161 Aug. 7 Mon.	Śrāvapa..... 1084	18 26	16 35	17 36	19 16	20 17	t.
1162 Feb. 1 Thur.	Māgha..... 1084	17 23	16 11	—	—	18 35	5·3
1162 July 27 Fri.	Śrāvapa..... 1085	22 51	21 45	—	—	23 57	4·3
1163 June 18 Tues.	Āshāḍha..... 1086	3 11	2 45	—	—	3 37	0·6
1163 Dec. 12 Thur.	Pausha..... 1086	12 26	11 13	—	—	13 39	5·4
1164 June 6 Sat.	Jyeshtha..... 1087	20 25	18 37	19 42	21 8	22 13	t.
1164 Nov. 30 Mon.	Mārgasīrsha..... 1087	12 15	10 23	11 24	13 6	14 7	t.
1165 May 27 Thur.	Jyeshtha..... 1088	11 36	9 57	11 36	11 36	13 15	t.
1165 Nov. 19 Fri.	Mārgasīrsha..... 1088	18 24	16 57	—	—	19 51	8·2

TABLE E.

A. D. Year, Month, and Day.	Hindu Month and Current Śaka Year. ["w. m. t." = with mean intercalations.]	Time measured from Lāika mean sunrise, taken as 6 A. M.					Number of twelfths eclipsed. ["t." = total eclipse.]
		Greatest phase. [i.e. moment of full moon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.	
				Begin- ning.	End.		
1	2	3	4	5	6	7	8
1167 Apr. 6 Thur.	Chaitra..... 1090	6 57	5 50	—	—	8 4	4.5
1167 Sept. 30 Sat.	Āśvina..... 1090	13 8	11 48	—	—	14 28	6.9
1168 Mar. 25 Mon.	Chaitra..... 1091	9 45	7 53	8 53	10 37	11 37	t.
1168 Sept. 18 Wed.	Āśvina..... 1091	24 55	23 3	24 3	25 47	26 47	t.
1169 Mar. 14 Fri.	Chaitra..... 1092	19 33	18 12	—	—	20 54	7.1
1169 Sept. 8 Mon.	Bhādrapada..... 1092	5 37	4 25	—	—	6 49	5.3
1171 Jan. 23 Sat.	Māgha..... 1093	15 56	14 25	—	—	17 27	9.2
1171 July 18 Sun.	Srāvaṇa..... 1094	20 54	19 21	—	—	22 27	9.9
1172 Jan. 12 Wed.	Māgha..... 1094	24 38	22 47	23 48	25 28	26 29	t.
1172 July 7 Fri.	Āshāḍha..... 1095	10 25	8 35	9 38	11 12	12 15	t.
1173 Jan. 1 Mon.	Pausha..... 1095	2 8	1 3	—	—	3 13	4.2
1173 June 27 Wed.	Āshāḍha..... 1096	3 26	2 37	—	—	4 15	2.3
1174 May 18 Sat.	Jyeshtha..... 1097	10 28	9 30	—	—	11 26	3.2
1174 Nov. 10 Sun.	Mārgaśīrsha..... 1097	16 13	15 0	—	—	17 26	5.4
1175 May 7 Wed.	Vaiśākha..... 1098	17 15	15 25	16 26	18 4	19 5	t.
1175 Oct. 31 Fri.	Kārttika..... 1098	6 31	4 39	5 40	7 22	8 23	t.
1176 Apr. 25 Sun.	Vaiśākha..... 1099	18 12	16 46	—	—	19 38	8.1
1176 Oct. 19 Tues.	Kārttika..... 1099	22 23	20 53	—	—	23 53	9.0
1178 Mar. 5 Sun.	Phālguna..... 1100	18 37	17 10	—	—	20 4	8.2
1178 Aug. 29 Tues.	Bhādrapada..... 1101	25 6	23 51	—	—	26 21	5.9
1179 Feb. 23 Fri.	Phālguna..... 1101	10 27	8 35	9 36	11 18	12 19	t.
1179 Aug. 18 Sat.	Bhādrapada..... 1102	25 20	23 28	24 28	26 12	27 12	t.
1180 Feb. 13 Wed.	Phālguna..... 1102	1 54	0 40	—	—	3 8	5.7
1180 Aug. 7 Thur.	Srāvaṇa..... 1103	6 2	4 47	—	—	7 17	5.8
1181 Dec. 22 Tues.	Pausha..... 1104	20 26	19 14	—	—	21 38	5.2
1182 June 18 Fri.	Āshāḍha..... 1105	3 55	2 9	3 19	4 31	5 41	t.
1182 Dec. 11 Sat.	Pausha..... 1105	20 30	18 38	19 39	21 21	22 22	t.
1183 June 7 Tues.	Jyeshtha..... 1106	18 45	17 2	18 17	19 13	20 28	t.
1183 Dec. 1 Thur.	Mārgaśīrsha..... 1106	2 59	1 32	—	—	4 26	8.3
1185 Apr. 16 Tues.	Vaiśākha..... 1108	13 44	12 48	—	—	14 40	3.0
1185 Oct. 10 Thur.	Āśvina..... 1108	21 27	20 9	—	—	22 45	6.4
1186 Apr. 5 Sat.	Chaitra..... 1109	17 6	15 15	16 16	17 56	18 57	t.
1186 Sept. 30 Tues.	Āśvina..... 1109	8 40	6 48	7 49	9 31	10 32	t.
1187 Mar. 26 Thur.	Chaitra..... 1110	3 27	2 0	—	—	4 54	8.2
1187 Sept. 19 Sat.	Āśvina..... 1110	12 57	11 40	—	—	14 14	6.3
1189 Feb. 2 Thur.	Māgha..... 1111	24 25	22 56	—	—	25 54	8.7
1189 July 29 Sat.	Srāvaṇa..... 1112	4 9	2 42	—	—	5 36	8.2
1190 Jan. 23 Tues.	Māgha..... 1112	8 50	6 59	8 0	9 40	10 41	t.
1190 July 18 Wed.	Srāvaṇa..... 1113	17 55	16 4	17 5	18 45	19 46	t.
1191 Jan. 12 Sat.	Māgha..... 1113	10 8	9 2	—	—	11 14	4.3
1191 July 8 Mon.	Āshāḍha..... 1114	11 2	10 0	—	—	12 4	3.8
1192 May 28 Thur.	Jyeshtha..... 1115	17 31	16 52	—	—	18 10	1.4
1192 Nov. 20 Fri.	Mārgaśīrsha..... 1115	24 55	23 42	—	—	26 8	5.4
1193 May 17 Mon.	Jyeshtha..... 1116	23 56	22 7	23 11	24 41	25 45	t.
1193 Nov. 10 Wed.	Kārttika..... 1116	15 17	13 25	14 26	16 8	17 9	t.
1194 May 6 Fri.	Vaiśākha..... 1117	24 50	23 17	—	—	26 23	9.9
1194 Oct. 31 Mon.	Kārttika..... 1117	6 58	5 27	—	—	8 29	9.3
1196 Mar. 16 Sat.	Chaitra..... 1119	2 45	1 22	—	—	4 8	7.4
1196 Sept. 9 Mon.	Bhādrapada..... 1119	8 12	7 5	—	—	9 19	4.4
1197 Mar. 5 Wed.	Phālguna..... 1119	18 48	16 56	17 56	19 40	20 40	t.

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A. D. Year, Month, and Day.	Hindu Month and Current Śaka Year. ["w. m. i." = with mean intercalations.]	Time measured from Lāika mean sunrise, taken as 6 A. M.					Number of twelfths eclipsed. ["t." = total eclipse.]
		Greatest phase. [i. e. mo- ment of full moon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.	
				Begin- ning.	End.		
1	2	3	4	5	6	7	8
1197 Aug. 29 Fri.	Bhādrapada 1120	8 17	6 25	7 26	9 8	10 9	t.
1198 Feb. 23 Mon.	Phālguna 1120	10 13	8 56	—	—	11 30	6·3
1198 Aug. 18 Tues.	Bhādrapada 1121	13 19	11 57	—	—	14 41	7·2
1200 Jan. 3 Mon.	Pauṣa 1122	4 28	3 17	—	—	5 39	5·1
1200 June 28 Wed.	Āshāḍha 1123	11 20	9 37	10 54	11 46	13 3	t.
1200 Dec. 22 Fri.	Pauṣa 1123	4 44	2 52	3 53	5 35	6 36	t.
1201 June 18 Mon.	Āshāḍha 1124	1 54	0 8	1 18	2 30	3 40	t.
1201 Dec. 11 Tues.	Pauṣa 1124	11 34	10 6	—	—	13 2	8·5
1203 Apr. 27 Sun.	Vaiśākha 1126	20 27	19 44	—	—	21 10	1·7
1203 Oct. 22 Wed.	Kārttika 1126	5 52	4 38	—	—	7 6	5·7
1204 Apr. 15 Thur.	Vaiśākha 1127	24 18	22 28	23 29	25 7	26 8	t.
1204 Oct. 10 Sun.	Āśvina 1127	16 41	14 49	15 50	17 32	18 33	t.
1205 Apr. 5 Tues.	Chaitra 1128	11 13	9 42	—	—	12 44	9·4
1205 Sept. 29 Thur.	Āśvina 1128	20 18	18 57	—	—	21 39	7·0
1207 Feb. 14 Wed.	Phālguna 1129	8 47	7 20	—	—	10 14	8·2
1207 Aug. 9 Thur.	Śrāvaṇa 1130	11 29	10 9	—	—	12 49	6·9
1208 Feb. 3 Sun.	Māgha 1130	16 55	15 4	16 5	17 45	18 46	t.
1208 July 23 Mon.	Śrāvaṇa 1131	25 29	23 37	24 38	26 20	27 21	t.
1209 Jan. 22 Thur.	Māgha 1131	18 1	16 54	—	—	19 8	4·5
1209 July 18 Sat.	Śrāvaṇa 1132	18 34	17 21	—	—	19 47	5·4
1210 Dec. 2 Thur.	Mārgaśīrṣa 1133	9 33	8 21	—	—	10 45	5·3
1211 May 29 Sun.	Jyeshṭha 1134	6 32	4 45	5 52	7 12	8 19	t.
1211 Nov. 21 Mon.	Mārgaśīrṣa 1134	24 5	22 13	23 14	24 56	25 57	t.
1212 May 17 Thur.	Jyeshṭha 1135	7 21	5 43	—	—	8 59	11·8
1212 Nov. 10 Sat.	Kārttika 1135	15 37	14 6	—	—	17 8	9·5
1214 Mar. 27 Thur.	Chaitra 1137	10 40	9 21	—	—	11 59	6·6
1214 Sept. 20 Sat.	Āśvina 1137	15 23	14 25	—	—	16 21	3·3
1215 Mar. 17 Tues.	Chaitra 1138	2 57	1 5	2 5	3 49	4 49	t.
1215 Sept. 9 Wed.	Bhādrapada 1138	15 27	13 36	14 37	16 17	17 18	t.
1216 Mar. 5 Sat.	Phālguna 1138	18 24	17 4	—	—	19 44	6·9
1216 Aug. 28 Sun.	Bhādrapada 1139	20 44	19 16	—	—	22 12	8·5
1218 Jan. 13 Sat.	Māgha 1140	12 27	11 17	—	—	13 37	4·8
1218 July 9 Mon.	Āshāḍha 1141	18 46	17 8	—	—	20 24	11·7
1219 Jan. 2 Wed.	Pauṣa 1141	13 0	11 9	12 10	13 50	14 51	t.
1219 June 29 Sat.	Āshāḍha 1142	9 2	7 13	8 18	9 46	10 51	t.
1219 Dec. 22 Sun.	Pauṣa 1142	20 16	18 47	—	—	21 45	8·7
1221 Nov. 1 Mon.	Kārttika 1144	14 24	13 11	—	—	15 37	5·5
1222 Apr. 27 Wed.	Vaiśākha 1145	7 28	5 38	6 42	8 14	9 18	t.
1222 Oct. 21 Fri.	Kārttika 1145	24 44	22 53	23 54	25 34	26 35	t.
1223 Apr. 16 Sun.	Vaiśākha 1146	18 52	17 17	—	—	20 27	10·7
1223 Oct. 11 Wed.	Āśvina 1146	3 53	2 29	—	—	5 17	7·7
1225 Feb. 24 Mon.	Phālguna 1147	16 59	15 35	—	—	18 23	7·7
1225 Aug. 19 Tues.	Bhādrapada 1148	18 59	17 45	—	—	20 13	5·6
1226 Feb. 13 Fri.	Phālguna 1148	24 53	23 1	24 2	25 44	26 45	t.
1226 Aug. 9 Sun.	Śrāvaṇa 1149	9 9	7 17	8 17	10 1	11 1	t.
1227 Feb. 3 Wed.	Māgha 1149	1 52	0 40	—	—	3 4	5·2
1227 July 30 Fri.	Śrāvaṇa 1150	2 4	0 45	—	—	3 23	6·7
1228 Dec. 12 Tues.	Pauṣa 1151	18 17	17 4	—	—	19 30	5·4
1229 June 8 Fri.	Jyeshṭha 11 1152	13 4	11 20	12 35	13 33	14 48	t.
1229 Dec. 2 Sun.	Mārgaśīrṣa 1152	8 56	7 4	8 5	9 47	10 48	t.

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A. D. Year, Month, and Day.	Hindu Month and Current Śaka Year. ["w. m. i." = with mean intercalations.]	Time measured from Lakṣa mean sunrise, taken as 6 A. M.					Number of twelfths eclipsed. ["t." = total eclipse.]
		Greatest phase. [i. e. mo- ment of full moon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.	
				Begin- ning.	End.		
1	2	3	4	5	6	7	8
1230 May 28 Tues.	Jyeshtha..... 1153	13 46	12 3	13 19	14 13	15 29	t.
1230 Nov. 21 Thur.	Mārgaśīrsha..... 1153	21 19	22 48	—	—	25 50	9.5
1232 Apr. 6 Tues.	Chaitra..... 1155	18 31	17 18	—	—	19 41	5.5
1232 Sept. 30 Thur.	Āśvina..... 1155	22 43	21 51	—	—	23 35	2.6
1233 Mar. 27 Sun.	Chaitra..... 1156	11 3	9 11	10 12	11 54	12 55	t.
1233 Sept. 19 Mon.	Āśvina..... 1156	22 43	20 53	21 55	23 31	24 33	t.
1234 Mar. 17 Fri.	Chaitra..... 1157	2 22	0 58	—	—	3 46	7.7
1234 Sept. 9 Sat.	Bhādrapada..... 1157	4 23	2 51	—	—	5 55	9.7
1236 Jan. 24 Thur.	Māgha..... 1158	20 17	19 10	—	—	21 24	4.4
1236 July 20 Sun.	Śrāvaṇa..... 1159	2 19	0 46	—	—	3 52	10.0
1237 Jan. 12 Mon.	Māgha..... 1159	21 14	19 23	20 24	22 4	23 5	t.
1237 July 9 Thur.	Āshāḍha..... 1160	16 9	14 19	15 21	16 57	17 59	t.
1238 Jan. 2 Sat.	Pauṣa..... 1160	4 55	3 26	—	—	6 24	8.7
1238 June 28 Mon.	Āshāḍha..... 1161	23 12	22 51	—	—	23 33	0.4
1239 Nov. 12 Sat.	Mārgaśīrsha..... 1162	22 58	21 46	—	—	24 10	5.2
1240 May 7 Mon.	Vaiśākha II..... 1163	14 33	12 46	13 52	15 14	16 20	t.
1240 Nov. 1 Thur.	Kārttika..... 1163	8 52	7 1	8 2	9 42	10 43	t.
1241 Apr. 27 Sat.	Vaiśākha..... 1164	2 27	0 47	2 17	2 37	4 7	t.
1241 Oct. 21 Mon.	Kārttika..... 1164	11 35	10 8	—	—	13 2	8.3
1243 Mar. 7 Sat.	Phālguna..... 1165	25 3	23 43	—	—	26 23	6.9
1243 Aug. 31 Mon.	Bhādrapada..... 1166	2 32	1 21	—	—	3 40	4.6
1244 Feb. 25 Thur.	Phālguna..... 1166	8 39	6 47	7 47	9 31	10 31	t.
1244 Aug. 19 Fri.	Bhādrapada..... 1167	16 53	15 1	16 2	17 44	18 45	t.
1245 Feb. 13 Mon.	Phālguna..... 1167	9 30	8 16	—	—	10 44	5.7
1245 Aug. 9 Wed.	Śrāvaṇa..... 1168	9 46	8 20	—	—	11 12	8.1
1246 Dec. 24 Mon.	Pauṣa..... 1169	3 4	1 51	—	—	4 17	5.5
1247 June 19 Wed.	Āshāḍha..... 1170	19 31	17 53	—	—	21 9	11.8
1247 Dec. 13 Fri.	Pauṣa..... 1170	17 49	15 57	16 58	18 40	19 41	t.
1248 June 7 Sun.	Jyeshtha II..... 1171	20 13	18 26	19 34	20 52	22 0	t.
1248 Dec. 2 Wed.	Mārgaśīrsha..... 1171	9 9	7 38	—	—	10 40	9.5
1250 Apr. 18 Mon.	Vaiśākha..... 1173	2 16	1 10	—	—	3 22	4.3
1250 Oct. 12 Wed.	Āśvina II..... 1173	6 17	5 33	—	—	7 1	1.8
1251 Apr. 7 Fri.	Chaitra..... 1174	18 59	17 8	18 9	19 49	20 50	t.
1251 Oct. 1 Sun.	Āśvina..... 1174	6 18	4 28	5 32	7 4	8 8	t.
1252 Mar. 27 Wed.	Chaitra..... 1175	10 17	8 48	—	—	11 46	8.8
1252 Sept. 19 Thur.	Āśvina..... 1175	12 8	10 33	—	—	13 43	10.7
1254 Feb. 4 Wed.	Māgha..... 1176	4 6	3 1	—	—	5 11	4.2
1254 July 31 Fri.	Śrāvaṇa..... 1177	9 50	8 22	—	—	11 18	8.6
1255 Jan. 24 Sun.	Māgha..... 1177	5 22	3 31	4 32	6 12	7 13	t.
1255 July 20 Tues.	Śrāvaṇa..... 1178	23 13	21 22	22 23	24 3	25 4	t.
1256 Jan. 13 Thur.	Māgha..... 1178	13 33	12 3	—	—	15 3	8.9
1256 July 9 Sun.	Āshāḍha..... 1179	5 50	5 2	—	—	6 38	2.2
1257 Nov. 23 Fri.	Mārgaśīrsha..... 1180	7 36	6 26	—	—	8 46	4.9
1258 May 18 Sat.	Jyeshtha..... 1181	21 34	19 49	21 0	22 8	23 19	t.
1258 Nov. 12 Tues.	Kārttika II..... 1181	17 2	15 11	16 12	17 52	18 53	t.
1259 May 8 Thur.	Vaiśākha..... 1182	9 59	8 16	9 31	10 27	11 42	t.
1259 Nov. 1 Sat.	Kārttika..... 1182	19 21	17 53	—	—	20 49	8.6
1261 Mar. 18 Fri.	Chaitra..... 1184	8 57	7 41	—	—	10 13	6.0
1261 Sept. 10 Sat.	Bhādrapada II..... 1184	10 20	9 19	—	—	11 21	3.6
1262 Mar. 7 Tues.	Phālguna..... 1184	16 15	14 23	15 23	17 7	18 7	t.

TABLE E.

A. D. Year, Month, and Day.	Hindu Month and Current Śaka Year. ["w. m. i." = with mean intercalations.]	Time measured from Lāika mean sunrise, taken as 6 A. M.						Number of twelfths eclipsed. ["t." = total eclipse.]
		Greatest phase. [i. e. moment of full moon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.		
				Begin- ning.	End.			
							h. m.	
1	2	3	4	5	6	7	8	
1262 Aug. 30 Wed.	Bhādrapada..... 1185	24 45	22 54	23 55	25 35	26 36	t.	
1263 Feb. 24 Sat.	Phālguna..... 1185	17 0	15 42	—	—	18 18	6.5	
1263 Aug. 20 Mon.	Bhādrapada..... 1186	17 34	16 3	—	—	19 5	9.3	
1265 Jan. 3 Sat.	Pausha..... 1187	11 46	10 34	—	—	12 58	5.3	
1265 June 30 Tues.	Āshāḍha..... 1188	1 59	0 26	—	—	3 32	9.9	
1265 Dec. 24 Thur.	Pausha..... 1188	2 44	0 53	1 54	3 34	4 35	t.	
1266 June 19 Sat.	Āshāḍha..... 1189	2 37	0 48	1 52	3 22	4 26	t.	
1266 Dec. 13 Mon.	Pausha..... 1189	17 55	16 23	—	—	19 27	9.6	
1267 June 8 Wed.	Jyeshtha II..... 1190	6 36	5 58	—	—	7 14	1.3	
1268 Apr. 28 Sat.	Vaiśākha..... 1191	9 53	8 57	—	—	10 49	3.0	
1268 Oct. 22 Mon.	Kārttika..... 1191	13 54	13 16	—	—	14 32	1.3	
1269 Apr. 18 Thur.	Vaiśākha..... 1192	2 48	0 58	1 59	3 37	4 38	t.	
1269 Oct. 11 Fri.	Āśvina II..... 1192	14 0	12 11	13 16	14 44	15 49	t.	
1270 Apr. 7 Mon.	Chaitra..... 1193	18 0	16 27	—	—	19 33	9.9	
1270 Sept. 30 Tues.	Āśvina..... 1193	20 4	18 27	—	—	21 41	11.3	
1272 Feb. 15 Mon.	Phālguna..... 1194	11 44	10 42	—	—	12 46	3.7	
1272 Aug. 10 Wed.	Śrāvapa..... 1195	17 26	16 5	—	—	18 47	7.1	
1273 Feb. 3 Fri.	Māgha..... 1195	13 27	11 36	12 37	14 17	15 18	t.	
1273 July 31 Mon.	Śrāvapa..... 1196	6 23	4 31	5 31	7 15	8 15	t.	
1274 Jan. 23 Tues.	Māgha..... 1196	22 3	20 32	—	—	23 34	9.2	
1274 July 20 Fri.	Śrāvapa..... 1197	12 25	11 23	—	—	13 27	3.8	
1275 Dec. 4 Wed.	Mārgaśīrsha..... 1198	16 21	15 12	—	—	17 30	4.7	
1276 May 29 Fri.	Jyeshtha..... 1199	4 31	2 49	4 10	4 52	6 13	t.	
1276 Nov. 22 Sun.	Mārgaśīrsha..... 1199	25 24	23 34	24 35	26 13	27 14	t.	
1277 May 18 Tues.	Jyeshtha..... 1200	17 22	15 36	16 45	17 59	19 8	t.	
1277 Nov. 12 Fri.	Kārttika II..... 1200	3 14	1 44	—	—	4 44	9.0	
1279 Mar. 29 Wed.	Chaitra..... 1202	16 38	15 28	—	—	17 48	4.9	
1279 Sept. 21 Thur.	Āśvina..... 1202	18 16	17 22	—	—	19 10	2.8	
1280 Mar. 17 Sun.	Chaitra..... 1203	23 45	21 53	22 54	24 36	25 37	t.	
1280 Sept. 10 Tues.	Bhādrapada..... 1203	8 50	7 0	8 1	9 39	10 40	t.	
1281 Mar. 6 Thur.	Phālguna..... 1203	24 22	23 0	—	—	25 44	7.3	
1281 Aug. 30 Sat.	Bhādrapada..... 1204	25 25	23 51	—	—	26 59	10.5	
1283 Jan. 14 Thur.	Māgha..... 1205	20 31	19 19	—	—	21 43	5.2	
1283 July 11 Sun.	Āshāḍha II..... 1206	8 31	7 5	—	—	9 57	8.1	
1284 Jan. 4 Tues.	Pausha..... 1206	11 36	9 45	10 46	12 26	13 27	t.	
1284 June 29 Thur.	Āshāḍha..... 1207	9 5	7 15	8 16	9 54	10 55	t.	
1284 Dec. 24 Sun.	Pausha..... 1207	2 44	1 12	—	—	4 16	9.7	
1285 June 18 Mon.	Āshāḍha..... 1208	13 25	12 29	—	—	14 21	3.0	
1286 May 9 Thur.	Vaiśākha II..... 1209	17 27	16 45	—	—	18 9	1.6	
1286 Nov. 2 Sat.	Kārttika..... 1209	21 41	21 11	—	—	22 11	0.8	
1287 Apr. 29 Tues.	Vaiśākha..... 1210	10 31	8 41	9 45	11 17	12 21	t.	
1287 Oct. 22 Wed.	Kārttika..... 1210	21 45	19 57	21 3	22 27	23 33	t.	
1288 Apr. 18 Sun.	Vaiśākha..... 1211	1 36	0 0	—	—	3 12	11.0	
1288 Oct. 11 Mon.	Āśvina..... 1211	4 8	2 28	3 58	4 18	5 48	t.	
1290 Feb. 25 Sat.	Phālguna..... 1212	19 17	18 22	—	—	20 12	2.9	
1290 Aug. 21 Mon.	Bhādrapada..... 1213	25 11	23 57	—	—	26 25	5.6	
1291 Feb. 14 Wed.	Phālguna..... 1213	21 24	19 34	20 35	22 13	23 14	t.	
1291 Aug. 11 Sat.	Śrāvapa..... 1214	13 40	11 48	12 48	14 32	15 32	t.	
1292 Feb. 4 Mon.	Māgha..... 1214	6 31	5 0	—	—	8 2	9.5	
1292 July 30 Wed.	Śrāvapa..... 1215	19 10	17 57	—	—	20 23	5.5	

TABLE E.

A. D. Year, Month, and Day.	Hindu Month and Current Śaka Year. ["w. m. i." = with mean intercalations.]	Time measured from Lāika mean sunrise, taken as 6 A. M.						Number of twelfths eclipsed. ["t." = total eclipse.]
		Greatest phase. [i. e. mo- ment of full moon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.		
				Begin- ning.	End.			
							h. m.	
1	2	3	4	5	6	7	8	
1293 Dec. 14 Mon.	Pauṣa 1216	25 5	23 57	—	—	26 13	4.6	
1294 June 9 Wed.	Jyeshtha II 1217	11 32	9 56	—	—	13 8	11.1	
1294 Dec. 4 Sat.	Mārgaśīrsha 1217	9 43	7 53	8 54	10 32	11 33	t.	
1295 May 29 Sun.	Jyeshtha 1218	24 49	23 0	24 6	25 32	26 38	t.	
1295 Nov. 23 Wed.	Mārgaśīrsha 1218	11 15	9 44	—	—	12 46	9.2	
1296 May 18 Fri.	Jyeshtha 1219	17 47	17 11	—	—	18 23	1.2	
1297 Apr. 8 Mon.	Chaitra 1220	24 15	23 13	—	—	25 17	3.7	
1297 Oct. 2 Wed.	Āśvina 1220	2 20	1 34	—	—	3 6	2.0	
1298 Mar. 29 Sat.	Chaitra 1221	7 0	5 9	6 10	7 50	8 51	t.	
1298 Sept. 21 Sun.	Āśvina 1221	17 0	15 10	16 12	17 48	18 50	t.	
1299 Mar. 18 Wed.	Chaitra 1222	7 40	6 12	—	—	9 8	8.5	
1299 Sept. 11 Fri.	Bhādrapada 1222	9 25	7 45	—	—	11 2	11.5	
1301 Jan. 25 Wed.	Māgha 1223	5 5	3 53	—	—	6 17	5.2	
1301 July 21 Fri.	Śrāvaṇa 1224	15 5	13 48	—	—	16 22	6.3	
1302 Jan. 14 Sun.	Māgha 1224	20 27	18 36	19 37	21 17	22 18	t.	
1302 July 10 Tues.	Āshāḍha II 1225	15 37	13 45	14 46	16 28	17 29	t.	
1303 Jan. 4 Fri.	Pauṣa 1225	11 29	9 57	—	—	13 1	9.7	
1303 June 29 Sat.	Āshāḍha 1226	20 19	19 9	—	—	21 29	4.9	
1304 May 20 Wed.	Jyeshtha 1227	0 59	0 44	—	—	1 14	0.2	
1304 Nov. 13 Fri.	Mārgaśīrsha 1227	5 35	5 14	—	—	5 56	0.4	
1305 May 9 Sun.	Vaiśākha II 1228	18 9	16 22	17 27	18 51	19 56	t.	
1305 Nov. 2 Tues.	Kārttika 1228	5 47	4 0	5 6	6 29	7 34	t.	
1306 Apr. 29 Fri.	Vaiśākha 1229	9 1	7 21	8 45	9 17	10 41	t.	
1306 Oct. 22 Sat.	Kārttika 1229	12 25	10 45	12 9	12 41	14 5	t.	
1308 Mar. 8 Fri.	Phālguna 1230	2 38	1 50	—	—	3 26	2.2	
1308 Sept. 1 Sun.	Bhādrapada 1231	8 56	7 49	—	—	10 3	4.5	
1309 Feb. 25 Tues.	Phālguna 1231	5 14	3 24	4 25	6 3	7 4	t.	
1309 Aug. 21 Thur.	Bhādrapada 1232	20 56	19 5	20 6	21 46	22 47	t.	
1310 Feb. 14 Sat.	Phālguna 1232	14 53	13 20	—	—	16 26	10.1	
1310 Aug. 11 Tues.	Śrāvaṇa 1233	1 57	0 35	—	—	3 19	7.3	
1311 Dec. 26 Sun.	Pauṣa 1234	9 47	8 40	—	—	10 54	4.4	
1312 June 19 Mon.	Āshāḍha 1235	18 36	17 5	—	—	20 7	9.4	
1312 Dec. 14 Thur.	Pauṣa 1235	18 1	16 11	17 12	18 50	19 51	t.	
1313 June 9 Sat.	Jyeshtha II 1236	8 13	6 23	7 25	9 1	10 3	t.	
1313 Dec. 3 Mon.	Mārgaśīrsha 1236	19 15	17 44	—	—	20 46	9.4	
1314 May 30 Thur.	Jyeshtha 1237	1 16	0 25	—	—	2 7	2.5	
1315 Apr. 20 Sun.	Vaiśākha 1238	7 40	6 51	—	—	8 29	2.3	
1315 Oct. 13 Mon.	Kārttika I 1238	10 35	9 55	—	—	11 15	1.5	
1316 Apr. 8 Thur.	Chaitra 1239	14 3	12 13	13 16	14 50	15 53	t.	
1316 Oct. 1 Fri.	Āśvina 1239	25 20	23 30	24 34	26 6	27 10	t.	
1317 Mar. 28 Mon.	Chaitra 1240	14 42	13 10	—	—	16 14	9.8	
1317 Sept. 21 Wed.	Āśvina 1240	17 30	15 50	17 18	17 42	19 10	t.	
1319 Feb 5 Mon.	Māgha 1241	13 40	12 30	—	—	14 50	4.8	
1319 Aug. 1 Wed.	Śrāvaṇa 1242	21 40	20 33	—	—	22 47	4.4	
1320 Jan. 26 Sat.	Māgha 1242	5 11	3 20	4 21	6 1	7 2	t.	
1320 July 20 Sun.	Śrāvaṇa 1243	22 11	20 19	21 20	23 2	24 3	t.	
1321 Jan. 14 Wed.	Māgha 1243	20 10	18 37	—	—	21 43	9.9	
1321 July 10 Fri.	Āshāḍha II 1244	3 16	1 57	—	—	4 35	6.6	
1323 May 20 Fri.	Jyeshtha 1246	25 39	23 54	25 5	26 13	27 24	t.	
1323 Nov. 13 Sun.	Mārgaśīrsha 1246	13 51	12 4	13 11	14 31	15 38	t.	

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		Greatest phase. [i.e. moment of fullmoon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.		
				Begin- ning.	End.			
							h. m.	
1	2	3	4	5	6	7	8	
1324 May 9 Wed.	Vaiśākha II. 1247	16 23	14 39	15 53	16 53	18 7	t.	
1324 Nov. 1 Thur.	Kārttika. 1247	20 50	19 9	20 30	21 10	22 31	t.	
1326 Mar. 19 Wed.	Chaitra. 1249	9 55	9 19	—	—	10 31	1.2	
1326 Sept. 12 Fri.	Bhādrapada II. 1249	16 53	15 54	—	—	17 52	3.4	
1327 Mar. 8 Sun.	Phālguna. 1249	13 1	11 11	12 14	13 48	14 51	t.	
1327 Sept. 2 Wed.	Bhādrapada. 1250	4 23	2 33	3 34	5 12	6 13	t.	
1328 Feb. 25 Thur.	Phālguna. 1250	23 8	21 32	—	—	24 44	10.9	
1328 Aug. 21 Sun.	Bhādrapada. 1251	8 51	7 23	—	—	10 19	8.4	
1330 Jan. 5 Fri.	Pauṣa. 1252	18 27	17 21	—	—	19 33	4.3	
1330 July 1 Sun.	Āshāḍha. 1253	1 37	0 12	—	—	3 2	7.8	
1330 Dec. 26 Wed.	Pauṣa. 1253	2 22	0 32	1 33	3 11	4 12	t.	
1331 June 20 Thur.	Āshāḍha. 1254	15 34	13 43	14 44	16 24	17 25	t.	
1331 Dec. 15 Sun.	Pauṣa. 1254	3 19	1 47	—	—	4 51	9.7	
1332 June 9 Tues.	Jyeshtha II. 1255	8 48	7 43	—	—	9 53	4.1	
1333 Apr. 30 Fri.	Vaiśākha. 1256	14 57	14 29	—	—	15 25	0.7	
1333 Oct. 23 Sat.	Kārttika. 1256	18 58	18 22	—	—	19 34	1.2	
1334 Apr. 19 Tues.	Vaiśākha. 1257	21 2	19 14	20 19	21 45	22 50	t.	
1334 Oct. 13 Thur.	Āśvina II. 1257	9 45	7 56	9 0	10 30	11 34	t.	
1335 Apr. 8 Sat.	Chaitra. 1258	21 40	20 3	—	—	23 17	11.2	
1335 Oct. 3 Tues.	Āśvina. 1258	1 43	0 1	1 22	2 4	3 25	t.	
1337 Feb. 15 Sat.	Phālguna. 1259	22 8	21 1	—	—	23 15	4.5	
1337 Aug. 12 Tues.	Śrāvaṇa II. 1260	4 23	3 29	—	—	5 17	2.8	
1338 Feb. 5 Thur.	Māgha. 1260	13 53	12 2	13 3	14 43	15 44	t.	
1338 Aug. 1 Sat.	Śrāvaṇa. 1261	4 51	3 1	4 2	5 40	6 41	t.	
1339 Jan. 26 Tues.	Māgha. 1261	4 51	3 17	—	—	6 25	10.2	
1339 July 21 Wed.	Śrāvaṇa. 1262	10 20	8 52	—	—	11 48	8.4	
1341 May 31 Thur.	Jyeshtha. 1264	9 10	7 28	8 47	9 33	10 52	t.	
1341 Nov. 23 Fri.	Mārgaśīrsha. 1264	22 1	20 15	21 23	22 39	23 47	t.	
1342 May 20 Mon.	Jyeshtha. 1265	23 38	21 52	23 0	24 16	25 24	t.	
1342 Nov. 13 Wed.	Mārgaśīrsha. 1265	5 20	3 37	4 55	5 45	7 3	t.	
1344 Sept. 23 Thur.	Āśvina. 1267	0 57	0 7	—	—	1 47	2.4	
1345 Mar. 18 Fri.	Chaitra. 1268	20 38	18 49	19 54	21 22	22 27	t.	
1345 Sept. 12 Mon.	Āśvina. 1268	11 56	10 6	11 9	12 43	13 46	t.	
1346 Mar. 8 Wed.	Phālguna. 1268	7 19	5 42	—	—	8 56	11.5	
1346 Sept. 1 Fri.	Bhādrapada. 1269	15 48	14 16	—	—	17 20	9.7	
1348 Jan. 17 Thur.	Māgha. 1270	3 5	2 0	—	—	4 10	4.2	
1348 July 11 Fri.	Āshāḍha II. 1271	8 47	7 30	—	—	10 4	6.2	
1349 Jan. 5 Mon.	Pauṣa. 1271	10 39	8 49	9 51	11 27	12 29	t.	
1349 June 30 Tues.	Āshāḍha. 1272	23 1	21 9	22 9	23 53	24 53	t.	
1349 Dec. 25 Fri.	Pauṣa. 1272	11 18	9 46	—	—	12 50	9.8	
1350 June 20 Sun.	Āshāḍha. 1273	16 15	15 0	—	—	17 30	5.8	
1351 Nov. 4 Fri.	Mārgaśīrsha. 1274	3 29	2 56	—	—	4 2	1.0	
1352 Apr. 30 Mon.	Vaiśākha. 1275	3 50	2 5	3 15	4 25	5 35	t.	
1352 Oct. 23 Tues.	Kārttika. 1275	18 19	16 30	17 36	19 2	20 8	t.	
1353 Apr. 19 Fri.	Vaiśākha. 1276	4 26	2 45	4 6	4 46	6 7	t.	
1353 Oct. 13 Sun.	Āśvina. 1276	10 8	8 25	9 41	10 35	11 51	t.	
1355 Feb. 27 Fri.	Phālguna. 1277	6 30	5 26	—	—	7 34	4.0	
1355 Aug. 23 Sun.	Bhādrapada. 1278	11 13	10 35	—	—	11 51	1.3	
1356 Feb. 16 Tues.	Phālguna. 1278	22 24	20 34	21 35	23 13	24 14	t.	
1356 Aug. 11 Thur.	Śrāvaṇa II. 1279	11 43	9 53	10 57	12 29	13 33	t.	

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		Greatest phase. [i.e. mo- ment of fullmoon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.		
				Begin- ning.	End.			
							h. m.	
1	2	3	4	5	6	7	8	
1357 Feb. 5 Sun.	Māgha 1279	13 21	11 47	—	—	14 55	10.4	
1357 July 31 Mon.	Śrāvaṇa..... 1280	17 31	15 58	—	—	19 4	10.1	
1359 June 11 Tues.	Jyeshtha II..... 1282	16 33	14 56	—	—	18 10	11.2	
1359 Dec. 5 Thur.	Mārgaśīrsha..... 1282	6 18	4 32	5 40	6 56	8 4	t.	
1360 May 31 Sun.	Jyeshtha..... 1283	6 43	4 54	5 58	7 28	8 32	t.	
1360 Nov. 23 Mon.	Mārgaśīrsha..... 1283	13 54	12 11	13 27	14 21	15 37	t.	
1362 Oct. 4 Tues.	Āśvina..... 1285	9 7	8 23	—	—	9 51	1.8	
1363 Mar. 30 Thur.	Chaitra..... 1286	4 7	2 20	3 25	4 49	5 54	t.	
1363 Sept. 23 Sat.	Āśvina..... 1286	19 34	17 45	18 51	20 17	21 23	t.	
1364 Mar. 18 Mon.	Chaitra..... 1287	15 23	13 43	15 7	15 39	17 3	t.	
1364 Sept. 11 Wed.	Bhādrapada II..... 1287	22 56	21 20	—	—	24 32	11.0	
1366 Jan. 27 Tues.	Māgha..... 1288	11 33	10 31	—	—	12 35	3.8	
1366 July 22 Wed.	Śrāvaṇa..... 1289	16 0	14 52	—	—	17 8	4.6	
1367 Jan. 16 Sat.	Māgha..... 1289	18 49	16 59	18 1	19 37	20 39	t.	
1367 July 12 Mon.	Āshāḍha I..... 1290	6 30	4 38	5 38	7 22	8 22	t.	
1368 Jan. 5 Wed.	Pauṣa..... 1290	19 22	17 49	—	—	20 55	10.0	
1368 June 30 Fri.	Āshāḍha..... 1291	23 42	22 20	—	—	25 4	7.3	
1369 Nov. 14 Wed.	Mārgaśīrsha..... 1292	12 3	11 35	—	—	12 31	0.7	
1370 May 11 Sat.	Vaiśākha II..... 1293	10 34	8 52	10 12	10 56	12 16	t.	
1370 Nov. 4 Mon.	Kārttika..... 1293	3 0	1 12	2 18	3 42	4 48	t.	
1371 Apr. 30 Wed.	Vaiśākha..... 1294	11 8	9 23	10 35	11 41	12 53	t.	
1371 Oct. 24 Fri.	Kārttika..... 1294	18 35	16 52	18 7	19 3	20 18	t.	
1373 Mar. 9 Wed.	Phālguna..... 1295	14 38	13 38	—	—	15 38	3.5	
1374 Feb. 27 Mon.	Phālguna..... 1296	6 51	5 1	6 2	7 40	8 41	t.	
1374 Aug. 22 Tues.	Bhādrapada..... 1297	18 38	16 51	17 56	19 20	20 25	t.	
1375 Feb. 16 Fri.	Phālguna..... 1297	21 43	20 8	—	—	23 18	10.8	
1375 Aug. 11 Sat.	Śrāvaṇa II..... 1298	24 45	23 8	—	—	26 22	11.5	
1377 June 21 Sun.	Āshāḍha..... 1300	23 58	22 26	—	—	25 30	9.6	
1377 Dec. 15 Tues.	Pauṣa..... 1300	14 34	12 48	13 57	15 11	16 20	t.	
1378 June 11 Fri.	Jyeshtha II..... 1301	13 51	12 1	13 2	14 40	15 41	t.	
1378 Dec. 4 Sat.	Mārgaśīrsha..... 1301	22 32	20 49	22 5	22 59	24 15	t.	
1379 May 31 Tues.	Jyeshtha..... 1302	20 51	20 20	—	—	21 22	0.9	
1380 Oct. 14 Sun.	Kārttika I..... 1303	17 22	16 47	—	—	17 57	1.1	
1381 Apr. 9 Tues.	Vaiśākha I..... 1304	11 31	9 46	10 56	12 6	13 16	t.	
1381 Oct. 4 Fri.	Āśvina..... 1304	3 18	1 31	2 37	3 59	5 5	t.	
1382 Mar. 29 Sat.	Chaitra..... 1305	23 15	21 32	22 48	23 42	24 58	t.	
1382 Sept. 23 Tues.	Āśvina..... 1305	6 11	4 33	—	—	7 49	11.8	
1384 Feb. 7 Sun.	Māgha..... 1306	19 59	19 0	—	—	20 58	3.4	
1384 Aug. 1 Mon.	Śrāvaṇa..... 1307	23 18	22 19	—	—	24 17	3.4	
1385 Jan. 27 Fri.	Māgha..... 1307	2 56	1 6	2 9	3 43	4 46	t.	
1385 July 22 Sat.	Śrāvaṇa..... 1308	14 3	12 11	13 12	14 54	15 55	t.	
1386 Jan. 16 Tues.	Māgha..... 1308	3 17	1 43	—	—	4 51	10.3	
1386 July 12 Thur.	Āshāḍha II..... 1309	7 12	5 42	—	—	8 42	8.9	
1387 Nov. 25 Mon.	Mārgaśīrsha..... 1310	20 46	20 18	—	—	21 14	0.7	
1388 May 21 Thur.	Jyeshtha..... 1311	17 12	15 35	—	—	18 49	11.3	
1388 Nov. 14 Sat.	Mārgaśīrsha..... 1311	11 45	9 58	11 4	12 26	13 32	t.	
1389 May 10 Mon.	Jyeshtha I..... 1312	17 44	15 57	17 3	18 25	19 31	t.	
1389 Nov. 4 Thur.	Kārttika..... 1312	3 9	1 25	2 38	3 40	4 53	t.	
1390 Apr. 29 Fri.	Vaiśākha..... 1313	21 9	20 58	—	—	21 20	0.1	
1391 Mar. 20 Mon.	Chaitra..... 1314	22 48	21 57	—	—	23 39	2.5	

TABLE E.

A. D. Year, Month, and Day.	Hindu Month and Current Śaka Year. ["w. m. i." = with mean intercalations.]	Time measured from Lanka mean sunrise, taken as 6 A. M.					Number of twelfths eclipsed. ["t." = total eclipse.]
		Greatest phase. [i.e. moment of fullmoon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.	
				Begin- ning.	End.		
1	2	3	4	5	6	7	8
1392 Mar. 9 Sat.	Phālguna 1314	15 9	13 19	14 22	15 56	16 59	t.
1392 Sept. 1 Sun.	Bhādrapada 1315	25 43	23 57	25 7	26 19	27 29	t.
1393 Feb. 27 Thur.	Phālguna 1315	5 58	4 21	—	—	7 35	11·4
1393 Aug. 22 Fri.	Bhādrapada 1316	8 9	6 23	7 49	8 29	9 50	t.
1395 July 3 Sat.	Āshāḍha 1318	7 22	5 57	—	—	8 47	7·9
1395 Dec. 26 Sun.	Pausha 1318	22 55	21 9	22 19	23 31	24 41	t.
1396 June 21 Wed.	Āshāḍha 1319	20 48	18 57	19 58	21 38	22 39	t.
1396 Dec. 15 Fri.	Pausha 1319	7 15	5 31	6 46	7 44	8 59	t.
1397 June 11 Mon.	Jyeshtha II 1320	3 29	2 36	—	—	4 22	2·7
1398 Oct. 26 Sat.	Kārttika 1321	1 47	1 24	—	—	2 10	0·5
1399 Apr. 20 Sun.	Vaiśākha 1322	18 48	17 5	18 22	19 14	20 31	t.
1399 Oct. 15 Wed.	Kārttika I 1322	11 13	9 27	10 35	11 51	12 59	t.
1400 Apr. 9 Fri.	Chaitra II 1323	7 3	5 18	6 29	7 37	8 48	t.
1400 Oct. 3 Sun.	Āśvina 1323	13 37	11 56	13 17	13 57	15 18	t.
1402 Feb. 18 Sat.	Phālguna 1324	4 10	3 15	—	—	5 5	2·9
1402 Aug. 13 Sun.	Bhādrapada I 1325	6 44	5 59	—	—	7 29	1·9
1403 Feb. 7 Wed.	Māgha 1325	10 58	9 8	10 12	11 44	12 48	t.
1403 Aug. 2 Thur.	Śrāvaṇa 1326	21 36	19 46	20 47	22 25	23 26	t.
1404 Jan. 27 Sun.	Māgha 1326	11 12	9 37	—	—	12 47	10·7
1404 July 22 Tues.	Śrāvaṇa 1327	14 42	13 8	—	—	16 16	10·4
1405 Dec. 6 Sun.	Mārgaśīrsha 1328	5 31	5 3	—	—	5 59	0·7
1406 June 1 Tues.	Jyeshtha 1329	23 41	22 10	—	—	25 12	9·5
1406 Nov. 25 Thur.	Mārgaśīrsha 1329	20 30	18 43	19 50	21 10	22 17	t.
1407 May 21 Sat.	Jyeshtha 1330	24 15	22 25	23 28	25 2	26 5	t.
1407 Nov. 15 Tues.	Mārgaśīrsha 1330	11 45	10 0	11 12	12 18	13 30	t.
1408 May 10 Thur.	Vaiśākha II 1331	4 9	3 25	—	—	4 53	1·8
1409 Mar. 31 Sun.	Chaitra 1332	6 42	6 0	—	—	7 24	1·6
1410 Mar. 20 Thur.	Chaitra 1333	23 16	21 27	22 31	24 1	25 5	t.
1410 Sept. 13 Sat.	Bhādrapada II 1333	8 59	7 15	8 30	9 28	10 43	t.
1411 Mar. 10 Tues.	Phālguna 1333	14 1	12 22	14 1	14 1	15 40	t.
1411 Sept. 2 Wed.	Bhādrapada 1334	15 44	14 0	15 13	16 15	17 28	t.
1413 July 13 Thur.	Āshāḍha II 1336	14 47	13 30	—	—	16 4	6·2
1414 Jan. 6 Sat.	Pausha 1336	7 14	5 28	6 38	7 50	9 0	t.
1414 July 3 Tues.	Āshāḍha 1337	3 54	2 2	3 2	4 46	5 46	t.
1414 Dec. 26 Wed.	Pausha 1337	15 56	14 12	15 26	16 26	17 40	t.
1415 June 22 Sat.	Āshāḍha 1338	10 0	8 54	—	—	11 6	4·3
1416 Nov. 5 Thur.	Kārttika 1339	10 12	9 54	—	—	10 30	0·3
1417 May 1 Sat.	Vaiśākha 1340	2 2	0 23	1 55	2 9	3 41	t.
1417 Oct. 25 Mon.	Kārttika 1340	19 11	17 25	18 36	19 46	20 57	t.
1418 Apr. 20 Wed.	Vaiśākha 1341	14 44	12 57	14 3	15 25	16 31	t.
1418 Oct. 14 Fri.	Kārttika I 1341	21 8	19 25	20 42	21 34	22 51	t.
1419 Apr. 10 Mon.	Chaitra 1342	7 15	6 49	—	—	7 41	0·6
1420 Feb. 29 Thur.	Phālguna 1342	12 20	11 31	—	—	13 9	2·3
1420 Aug. 23 Fri.	Bhādrapada 1343	14 17	13 51	—	—	14 43	0·6
1421 Feb. 17 Mon.	Phālguna 1343	18 46	16 57	18 1	19 31	20 35	t.
1421 Aug. 13 Wed.	Śrāvaṇa II 1344	5 19	3 29	4 33	6 5	7 9	t.
1422 Feb. 6 Fri.	Māgha 1344	18 57	17 20	—	—	20 34	11·2
1422 Aug. 2 Sun.	Śrāvaṇa 1345	22 13	20 35	—	—	23 51	11·8
1423 Dec. 17 Fri.	Pausha 1346	14 21	13 51	—	—	14 51	0·8
1424 June 12 Mon.	Āshāḍha I 1347	6 6	4 43	—	—	7 29	7·5

TABLE E.

A. D. Year, Month, and Day.	Hindu Month and Current Śaka Year. ["w. m. i." = with mean intercalations.]	Time measured from Lanka mean sunrise, taken as 6 A. M.						Number of twelfths eclipsed. ["t." = total eclipse.]
		Greatest phase. [i. e. moment of fullmoon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.		
				Begin- ning.	End.			
							h. m.	
1	2	3	4	5	6	7	8	
1424 Dec. 6 Wed.	Mārgaśīrsha..... 1347	5 23	3 36	4 42	6 4	7 10	t.	
1425 June 1 Fri.	Jyeshtha..... 1348	6 46	4 55	5 56	7 36	8 37	t.	
1425 Nov. 25 Sun.	Mārgaśīrsha..... 1348	20 26	18 41	19 53	20 59	22 11	t.	
1426 May 21 Tues.	Jyeshtha..... 1349	11 8	10 8	—	—	12 8	3.5	
1427 Apr. 11 Fri.	Vaiśākha I..... 1350	14 36	14 13	—	—	14 59	0.5	
1428 Mar. 31 Wed.	Chaitra..... 1351	7 19	5 32	6 38	8 0	9 6	t.	
1428 Sept. 23 Thur.	Āśvina..... 1351	16 26	14 45	16 7	16 45	18 7	t.	
1429 Mar. 20 Sun.	Chaitra..... 1352	21 59	20 17	21 38	22 20	23 41	t.	
1429 Sept. 12 Mon.	Bhādrapada II..... 1352	23 29	21 43	22 53	24 5	25 15	t.	
1430 Sept. 2 Sat.	Bhādrapada..... 1353	13 14	13 3	—	—	13 25	0.1	
1431 July 24 Tues.	Śrāvaṇa..... 1354	22 16	21 6	—	—	23 26	4.8	
1432 Jan. 17 Thur.	Māgha..... 1354	15 28	13 42	14 52	16 4	17 14	t.	
1432 July 13 Sun.	Āṣāḍha II..... 1355	10 55	9 3	10 4	11 46	12 47	t.	
1433 Jan. 5 Mon.	Pausha..... 1355	24 39	22 55	24 9	25 9	26 23	t.	
1433 July 2 Thur.	Āṣāḍha..... 1356	16 31	15 14	—	—	17 43	6.2	
1435 May 12 Thur.	Jyeshtha I..... 1358	9 9	7 34	—	—	10 44	10.6	
1435 Nov. 6 Sun.	Kārttika..... 1358	3 14	1 29	2 41	3 47	4 59	t.	
1436 Apr. 30 Mon.	Vaiśākha..... 1359	22 19	20 30	21 34	23 4	24 8	t.	
1436 Oct. 25 Thur.	Kārttika..... 1359	4 47	3 3	4 16	5 18	6 31	t.	
1437 Apr. 20 Sat.	Vaiśākha..... 1360	15 7	14 22	—	—	15 52	1.9	
1438 Mar. 11 Tues.	Phālguna..... 1360	20 14	19 35	—	—	20 53	1.4	
1439 Mar. 1 Sun.	Phālguna..... 1361	2 23	0 35	1 41	3 5	4 11	t.	
1439 Aug. 24 Mon.	Bhādrapada..... 1362	13 8	11 20	12 26	13 50	14 56	t.	
1440 Feb. 18 Thur.	Phālguna..... 1362	2 33	0 55	—	—	4 11	11.7	
1440 Aug. 13 Sat.	Śrāvaṇa II..... 1363	5 55	4 13	5 33	6 17	7 37	t.	
1441 Dec. 27 Wed.	Pausha..... 1364	23 7	22 41	—	—	23 33	0.6	
1442 June 23 Sat.	Āṣāḍha..... 1365	12 35	11 21	—	—	13 49	5.7	
1442 Dec. 17 Mon.	Pausha..... 1365	14 21	12 34	13 41	15 1	16 8	t.	
1443 June 12 Wed.	Āṣāḍha I..... 1366	13 15	11 23	12 23	14 7	15 7	t.	
1443 Dec. 7 Sat.	Mārgaśīrsha..... 1366	5 13	3 23	4 40	5 46	6 58	t.	
1444 May 31 Sun.	Jyeshtha..... 1367	18 3	16 51	—	—	19 15	5.2	
1446 Apr. 11 Mon.	Vaiśākha I..... 1369	15 14	13 28	14 38	15 50	17 0	t.	
1446 Oct. 4 Tues.	Āśvina..... 1369	24 2	22 23	23 55	24 9	25 41	t.	
1447 Apr. 1 Sat.	Chaitra..... 1370	5 46	4 2	5 16	6 16	7 30	t.	
1447 Sept. 24 Sun.	Āśvina..... 1370	7 20	5 33	6 39	8 1	9 7	t.	
1448 Sept. 12 Thur.	Bhādrapada II..... 1371	21 14	20 38	—	—	21 50	1.2	
1449 Aug. 4 Mon.	Śrāvaṇa..... 1372	5 45	4 46	—	—	6 44	3.4	
1450 Jan. 27 Tues.	Māgha..... 1372	23 41	21 56	23 6	24 16	25 26	t.	
1450 July 24 Fri.	Śrāvaṇa..... 1373	17 57	16 7	17 8	18 46	19 47	t.	
1451 Jan. 17 Sun.	Māgha..... 1373	9 16	7 32	8 44	9 48	11 0	t.	
1451 July 13 Tues.	Āṣāḍha II..... 1374	23 4	21 38	—	—	24 30	8.0	
1453 May 22 Tues.	Jyeshtha..... 1376	16 17	14 47	—	—	17 47	9.0	
1453 Nov. 16 Fri.	Mārgaśīrsha..... 1376	11 27	9 43	10 55	11 59	13 11	t.	
1454 May 12 Sun.	Jyeshtha I..... 1377	5 50	4 0	5 1	6 39	7 40	t.	
1454 Nov. 5 Tues.	Kārttika..... 1377	12 33	10 48	11 59	13 7	14 18	t.	
1455 May 1 Thur.	Vaiśākha..... 1378	22 48	21 51	—	—	23 45	3.1	
1456 Mar. 22 Mon.	Chaitra..... 1379	4 2	3 44	—	—	4 20	0.3	
1457 Mar. 11 Fri.	Phālguna..... 1379	9 55	8 9	9 17	10 33	11 41	t.	
1457 Sept. 3 Sat.	Bhādrapada..... 1380	21 9	19 23	20 32	21 46	22 55	t.	
1458 Feb. 28 Tues.	Phālguna..... 1380	10 3	8 23	9 47	10 19	11 43	t.	

TABLE E.

A. D. Year, Month, and Day.	Hindu Month and Current Śaka Year. ["w.m.i." = with mean intercalations.]	Time measured from Lāṅkā mean sunrise, taken as 5 A. M.					Number of twelfths eclipsed. ["t." = total eclipse.]
		Greatest phase. [i.e. moment of fullmoon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.	
				Begin- ning.	End.		
1	2	3	4	5	6	7	8
1458 Aug. 24 Thur.	Bhādrapada..... 1351	13 43	11 58	13 10	14 16	15 23	t.
1460 Jan. 8 Tues.	Pauṣa..... 1352	7 52	7 24	—	—	8 20	0.7
1460 July 3 Thur.	Āshāḍha..... 1353	19 1	18 0	—	—	20 2	3.6
1460 Dec. 27 Sat.	Pauṣa..... 1353	23 11	21 24	22 32	23 50	24 58	t.
1461 June 22 Mon.	Āshāḍha..... 1354	19 42	17 51	18 52	20 32	21 33	t.
1461 Dec. 17 Thur.	Pauṣa..... 1354	13 56	12 11	13 22	14 30	15 41	t.
1462 June 11 Fri.	Āshāḍha I..... 1355	24 58	23 38	—	—	26 18	6.9
1464 Apr. 21 Sat.	Vaiśākha..... 1357	22 58	21 14	22 29	23 27	24 32	t.
1464 Oct. 15 Mon.	Kārttika..... 1357	7 47	6 10	—	—	9 24	11.5
1465 Apr. 11 Thur.	Chaitra II..... 1358	13 24	11 38	12 48	14 0	15 10	t.
1465 Oct. 4 Fri.	Āśvina..... 1358	15 21	13 33	14 38	16 4	17 9	t.
1466 Sept. 24 Wed.	Āśvina..... 1359	5 21	4 34	—	—	6 8	2.1
1467 Aug. 15 Sat.	Bhādrapada I..... 1360	13 17	12 34	—	—	14 0	1.7
1468 Feb. 8 Mon.	Māgha..... 1390	7 51	6 7	7 19	8 23	9 35	t.
1468 Aug. 3 Wed.	Śrāvaṇa..... 1391	25 5	23 16	24 20	25 50	26 54	t.
1469 Jan. 27 Fri.	Māgha..... 1391	17 52	16 7	17 18	18 26	19 37	t.
1469 July 24 Mon.	Śrāvaṇa..... 1392	5 39	4 7	—	—	7 11	9.7
1470 Jan. 17 Wed.	Māgha..... 1392	8 50	8 39	—	—	9 1	0.1
1471 June 2 Sun.	Jyeshtha..... 1394	23 24	22 1	—	—	24 47	7.5
1471 Nov. 27 Wed.	Mārgaśīrṣa..... 1394	19 36	17 52	19 5	20 7	21 20	t.
1472 May 22 Fri.	Jyeshtha..... 1395	13 20	11 28	12 29	14 11	15 12	t.
1472 Nov. 15 Sun.	Mārgaśīrṣa..... 1395	20 26	18 41	19 51	21 1	22 11	t.
1473 May 12 Wed.	Jyeshtha I..... 1396	6 26	5 17	—	—	7 35	4.7
1473 Nov. 4 Thur.	Kārttika..... 1396	20 7	19 56	—	—	20 18	0.1
1475 Mar. 22 Wed.	Chaitra..... 1395	17 17	15 32	16 41	17 50	19 2	t.
1475 Sept. 15 Fri.	Āśvina I..... 1398	5 9	3 24	4 36	5 42	6 54	t.
1476 Mar. 10 Sun.	Phālguna..... 1398	17 27	15 44	17 0	17 54	19 10	t.
1476 Sept. 3 Tues.	Bhādrapada..... 1399	21 36	19 50	20 58	22 14	23 22	t.
1478 Jan. 18 Sun.	Māgha..... 1400	16 32	16 9	—	—	16 55	0.5
1478 July 15 Wed.	Śrāvaṇa I..... 1401	1 28	0 43	—	—	2 13	1.0
1479 Jan. 8 Fri.	Pauṣa..... 1401	8 3	6 16	7 24	8 42	9 50	t.
1479 July 4 Sun.	Āshāḍha..... 1402	2 14	0 24	1 26	3 2	4 4	t.
1479 Dec. 28 Tues.	Pauṣa..... 1402	22 44	20 59	22 11	23 17	24 29	t.
1480 June 22 Thur.	Āshāḍha..... 1403	7 51	6 21	—	—	9 21	8.9
1482 May 3 Fri.	Vaiśākha..... 1405	6 36	4 56	6 22	6 50	8 16	t.
1482 Oct. 26 Sat.	Kārttika..... 1405	15 44	14 8	—	—	17 20	11.1
1483 Apr. 22 Tues.	Vaiśākha..... 1406	20 49	19 1	20 7	21 31	22 37	t.
1483 Oct. 15 Wed.	Kārttika..... 1406	23 35	21 46	22 50	24 20	25 24	t.
1484 Oct. 4 Mon.	Āśvina..... 1407	13 42	12 49	—	—	14 35	2.7
1485 Aug. 25 Thur.	Bhādrapada..... 1408	21 4	20 38	—	—	21 30	0.6
1486 Feb. 18 Sat.	Phālguna..... 1408	15 50	14 6	15 20	16 20	17 34	t.
1486 Aug. 15 Tues.	Śrāvaṇa II..... 1409	8 15	6 28	7 34	8 56	10 2	t.
1487 Feb. 8 Thur.	Māgha..... 1409	2 21	0 35	1 46	2 56	4 7	t.
1487 Aug. 4 Sat.	Śrāvaṇa..... 1410	12 23	10 46	—	—	14 0	11.3
1488 Jan. 28 Mon.	Māgha..... 1410	17 35	17 9	—	—	18 1	0.6
1489 June 13 Sat.	Āshāḍha I..... 1412	6 26	5 11	—	—	7 41	5.9
1489 Dec. 8 Tues.	Mārgaśīrṣa..... 1412	3 54	2 11	3 26	4 22	5 37	t.
1490 June 2 Wed.	Jyeshtha..... 1413	20 49	18 57	19 57	21 41	22 41	t.
1490 Nov. 27 Sat.	Mārgaśīrṣa..... 1413	4 25	2 39	3 49	5 1	6 11	t.
1491 May 23 Mon.	Jyeshtha..... 1414	13 56	12 40	—	—	15 12	6.0

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A. D. Year, Month, and Day.	Hindu Month and Current Śaka Year. ["w. m. t." = with mean intercalations.]	Time measured from Lanka mean sunrise, taken as 6 A. M.						Number of twelfths eclipsed. ["t." = total eclipse.]
		Greatest phase. [i. e. moment of fullmoon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.		
				Begin- ning.	End.			
							h. m.	
1	2	3	4	5	6	7	8	
1491 Nov. 16 Wed.	Mārgaśīrsha 1414	4 9	3 46	—	—	4 32	0 5	
1493 Apr. 1 Mon.	Chaitra 1416	24 28	22 46	24 4	24 52	26 10	t.	
1493 Sept. 25 Wed.	Āśvina 1416	13 19	11 36	12 52	13 46	15 2	t.	
1494 Mar. 21 Fri.	Chaitra 1417	24 35	22 50	25 1	25 9	26 20	t.	
1494 Sept. 15 Mon.	Bhādrapada II 1417	5 31	3 44	4 49	6 13	7 18	t.	
1496 Jan. 30 Sat.	Māgha 1418	1 13	0 50	—	—	1 36	0·5	
1497 Jan. 18 Wed.	Māgha 1419	16 53	15 7	16 16	17 30	18 39	t.	
1497 July 14 Fri.	Śrāvaṇa I 1420	8 45	6 56	8 2	9 28	10 34	t.	
1498 Jan. 8 Mon.	Pauṣa 1420	7 25	5 40	6 51	7 59	9 10	t.	
1498 July 3 Tues.	Āṣāḍha 1421	14 55	13 20	—	—	16 30	10·6	
1500 May 13 Wed.	Jyeshtha I 1423	14 13	12 38	—	—	15 48	10·8	
1500 Nov. 5 Thur.	Kārttika 1423	23 48	22 13	—	—	25 23	10·7	
1501 May 3 Mon.	Vaiśākha 1424	4 13	2 23	3 27	4 59	6 3	t.	
1501 Oct. 26 Tues.	Kārttika 1424	7 53	6 3	7 6	8 40	9 43	t.	
1502 Oct. 15 Sat.	Kārttika 1425	22 7	21 9	—	—	23 5	3·2	
1504 Feb. 29 Thur.	Phālguna 1426	23 42	21 59	23 17	24 7	25 25	t.	
1504 Aug. 25 Sun.	Bhādrapada 1427	15 28	13 43	14 54	16 2	17 13	t.	
1505 Feb. 18 Tues.	Phālguna 1427	10 44	8 58	10 6	11 22	12 30	t.	
1505 Aug. 14 Thur.	Śrāvaṇa II 1428	19 5	17 23	18 43	19 27	20 47	t.	
1506 Feb. 8 Sun.	Māgha 1428	2 10	1 40	—	—	2 40	0·8	
1507 June 24 Thur.	Āṣāḍha 1430	13 33	12 26	—	—	14 40	4·4	
1507 Dec. 19 Sun.	Pauṣa 1430	12 11	10 28	11 45	12 37	13 54	t.	
1508 June 13 Tues.	Āṣāḍha I 1431	4 14	2 22	3 22	5 6	6 6	t.	
1508 Dec. 7 Thur.	Mārgaśīrsha 1431	12 24	10 38	11 47	13 1	14 10	t.	
1509 June 2 Sat.	Jyeshtha 1432	21 26	20 2	—	—	22 50	7·7	
1509 Nov. 26 Mon.	Mārgaśīrsha 1432	12 17	11 51	—	—	12 43	0·6	
1511 Apr. 13 Sun.	Vaiśākha I 1434	7 25	5 47	—	—	9 3	11·8	
1511 Oct. 6 Mon.	Āśvina 1434	21 41	20 2	21 22	22 6	23 26	t.	
1512 Apr. 1 Thur.	Chaitra 1435	7 41	5 54	7 1	8 21	9 23	t.	
1512 Sept. 25 Sat.	Āśvina 1435	13 35	11 46	12 51	14 19	15 24	t.	
1513 Mar. 21 Mon.	Chaitra 1436	10 25	10 7	—	—	10 43	0·3	
1513 Sept. 15 Thur.	Bhādrapada II 1436	1 29	1 18	—	—	1 40	0·1	
1514 Feb. 9 Thur.	Māgha 1436	9 45	9 30	—	—	10 0	0·2	
1515 Jan. 29 Mon.	Māgha 1437	25 36	23 50	25 0	26 12	27 22	t.	
1515 July 25 Wed.	Śrāvaṇa 1438	15 28	13 42	14 52	16 4	17 14	t.	
1516 Jan. 19 Sat.	Māgha 1438	16 1	14 16	15 26	16 36	17 46	t.	
1516 July 13 Sun.	Śrāvaṇa I 1439	21 57	20 17	21 43	22 11	23 37	t.	
1518 May 24 Mon.	Jyeshtha 1441	21 42	20 11	—	—	23 13	9·2	
1518 Nov. 17 Wed.	Mārgaśīrsha 1441	7 58	6 23	—	—	9 33	10·6	
1519 May 14 Sat.	Jyeshtha I 1442	11 28	9 38	10 39	12 17	13 18	t.	
1519 Nov. 6 Sun.	Kārttika 1442	16 20	14 30	15 33	17 7	18 10	t.	
1520 May 2 Wed.	Vaiśākha 1443	18 14	17 35	—	—	18 53	1·4	
1520 Oct. 26 Fri.	Kārttika 1443	6 41	5 39	—	—	7 43	3·8	
1522 Mar. 12 Wed.	Chaitra 1445	7 30	5 50	7 14	7 46	9 10	t.	
1522 Sept. 5 Fri.	Bhādrapada 1445	22 49	21 6	22 24	23 14	24 32	t.	
1523 Mar. 1 Sun.	Phālguna 1445	19 1	17 14	18 20	19 42	20 48	t.	
1523 Aug. 26 Wed.	Bhādrapada 1446	1 56	0 11	1 23	2 29	3 41	t.	
1524 Feb. 19 Fri.	Phālguna 1446	10 41	10 3	—	—	11 19	1·3	
1525 July 4 Tues.	Āṣāḍha 1448	20 42	19 49	—	—	21 35	2·7	
1525 Dec. 29 Fri.	Pauṣa 1448	20 23	18 41	19 59	20 47	22 5	t.	

TABLE E.

A. D. Year, Month, and Day.	Hindn Month and Current Śaka Year. ["w.m.i." = with mean intercalations.]	Time measured from Lanka mean sunrise, taken as 5 A.M.						Number of twelfths eclipsed. ["t." = total eclipse.]
		Greatest phase. [i.e. mom- ent of full moon]	Begin- ning of Eclipse.	Period of total obscuration.		Ead of Eclipse.		
				Begin- ning.	Eud.			
							h. m.	
1	2	3	4	5	6	7	8	
1526 June 24 Sun.	Āshāḍha 1449	11 39	9 48	10 49	12 29	13 30	t.	
1526 Dec. 18 Tues.	Pausha 1449	20 27	18 41	19 49	21 5	22 13	t.	
1527 June 14 Fri.	Āshāḍha I 1450	4 55	3 25	—	—	6 25	9.1	
1527 Dec. 7 Sat.	Mārgaśīrsha 1450	20 32	20 1	—	—	21 3	0.9	
1529 Apr. 23 Fri.	Vaiśākha 1452	14 21	12 47	—	—	15 55	10.4	
1529 Oct. 17 Sun.	Kārttika 1452	6 11	4 31	5 59	6 23	7 51	t.	
1530 Apr. 12 Tues.	Vaiśākha I 1453	14 36	12 47	13 51	15 21	16 25	t.	
1530 Oct. 6 Thur.	Āśvina 1453	21 49	19 59	21 3	22 35	23 39	t.	
1531 Apr. 1 Sat.	Chaitra 1454	17 49	17 7	—	—	18 31	1.6	
1531 Sept. 26 Tues.	Āśvina 1454	9 10	8 40	—	—	9 40	0.8	
1533 Feb. 9 Sun.	Māgha 1455	10 15	8 30	9 40	10 50	12 0	t.	
1533 Aug. 4 Mon.	Śrāvaṇa 1456	22 17	20 34	21 51	22 43	24 0	t.	
1534 Jan. 29 Thur.	Māgha 1456	24 36	22 50	24 0	25 12	26 22	t.	
1534 July 25 Sat.	Śrāvaṇa 1457	5 9	3 25	4 39	5 39	6 53	t.	
1536 June 4 Sun.	Jyeshṭha 1459	5 10	3 46	—	—	6 34	7.7	
1536 Nov. 27 Mon.	Mārgaśīrsha 1459	16 13	14 39	—	—	17 47	10.4	
1537 May 24 Thur.	Jyeshṭha 1460	18 32	16 40	17 41	19 23	20 24	t.	
1537 Nov. 16 Fri.	Mārgaśīrsha 1460	24 53	23 3	24 5	25 41	26 43	t.	
1538 May 14 Tues.	Jyeshṭha I 1461	0 59	0 3	—	—	1 55	3.0	
1538 Nov. 6 Wed.	Kārttika 1461	15 18	14 15	—	—	16 21	3.9	
1540 Mar. 22 Mon.	Chaitra 1463	15 13	13 35	—	—	16 51	11.8	
1540 Sept. 16 Thur.	Āśvina I 1463	6 17	4 37	6 3	6 31	7 57	t.	
1541 Mar. 12 Sat.	Chaitra I 1464	3 10	1 21	2 27	3 53	4 59	t.	
1541 Sept. 5 Mon.	Bhādrapada 1464	8 57	7 10	8 18	9 36	10 44	t.	
1542 Mar. 1 Wed.	Phālguna 1464	19 10	18 27	—	—	19 53	1.7	
1543 July 16 Mon.	Śrāvaṇa I 1466	3 57	3 22	—	—	4 32	1.1	
1544 Jan. 10 Thur.	Pausha 1466	4 38	2 56	4 16	5 0	6 20	t.	
1544 July 4 Fri.	Āshāḍha 1467	19 5	17 15	18 17	19 53	20 55	t.	
1544 Dec. 29 Mon.	Pausha 1467	4 31	2 44	3 52	5 10	6 18	t.	
1545 June 24 Wed.	Āshāḍha 1468	12 19	10 44	—	—	13 54	10.8	
1545 Dec. 18 Fri.	Pausha 1468	4 45	4 10	—	—	5 20	1.1	
1547 May 4 Wed.	Vaiśākha 1470	21 2	19 32	—	—	22 32	8.9	
1547 Oct. 28 Fri.	Kārttika 1470	14 43	13 4	14 43	14 43	16 22	t.	
1548 Apr. 22 Sun.	Vaiśākha 1471	21 25	19 35	20 37	22 13	23 15	t.	
1548 Oct. 17 Wed.	Kārttika 1471	6 6	4 16	5 18	6 54	7 56	t.	
1549 Apr. 12 Fri.	Vaiśākha I 1472	1 8	0 13	—	—	2 3	2.9	
1549 Oct. 6 Sun.	Āśvina 1472	17 3	16 21	—	—	17 45	1.6	
1551 Feb. 20 Fri.	Phālguna 1473	18 42	16 57	18 9	19 15	20 27	t.	
1551 Aug. 16 Sun.	Bhādrapada I 1474	5 9	3 30	5 9	5 9	6 48	t.	
1552 Feb. 10 Wed.	Māgha 1474	8 59	7 13	8 23	9 35	10 45	t.	
1552 Aug. 4 Thur.	Śrāvaṇa 1475	12 23	10 36	11 44	13 2	14 10	t.	
1554 June 15 Fri.	Āshāḍha I 1477	12 30	11 15	—	—	13 45	5.9	
1554 Dec. 8 Sat.	Mārgaśīrsha 1477	24 33	23 0	—	—	26 6	10.1	
1555 June 4 Tues.	Jyeshṭha 1478	25 36	23 44	24 44	26 28	27 28	t.	
1555 Nov. 28 Thur.	Mārgaśīrsha 1478	9 33	7 43	8 45	10 21	11 23	t.	
1556 May 24 Sun.	Jyeshṭha 1479	7 37	6 29	—	—	8 45	4.6	
1556 Nov. 16 Mon.	Mārgaśīrsha 1479	24 6	23 1	—	—	25 11	4.2	
1558 Apr. 2 Sat.	Chaitra 1481	22 45	21 10	—	—	24 20	10.8	
1558 Sept. 27 Tues.	Āśvina 1481	13 54	12 17	—	—	15 31	11.3	
1559 Mar. 23 Thur.	Chaitra 1482	11 16	9 26	10 30	12 2	13 6	t.	

TABLE E.

A. D. Year, Month, and Day.	Hindu Month and Current Śaka Year. ["v. m. i." = with mean intercalations.]	Time measured from Lanka mean sunrise, taken as 6 A. M.					Number of twelfths eclipsed. ["t." = total eclipse.]
		Greatest phase. [i.e. mo- ment of fullmoon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.	
				Begin- ning.	End.		
1	2	3	4	5	6	7	8
1559 Sept. 16 Sat.	Āśvina I. 1482	16 2	14 13	15 19	16 45	17 51	t.
1560 Mar. 12 Tues.	Phālguna 1482	3 26	2 35	—	—	4 17	2.5
1560 Sept. 4 Wed.	Bhādrapada 1483	16 11	15 36	—	—	16 46	1.1
1562 Jan. 20 Tues.	Māgha 1484	12 42	11 1	12 22	13 2	14. 23	t.
1562 July 16 Thur.	Śrāvana I. 1485	2 38	0 49	1 54	3 22	4 27	t.
1563 Jan. 9 Sat.	Pauṣa 1485	12 27	10 40	11 47	13 7	14 14	t.
1563 July 5 Mon.	Āshāḍha 1486	19 45	18 5	19 29	20 1	21 25	t.
1563 Dec. 29 Wed.	Pauṣa 1486	12 59	12 21	—	—	13 37	1.3
1565 May 15 Tues.	Jyeshtha 1488	3 38	2 16	—	—	5 0	7.2
1565 Nov. 7 Wed.	Kārttika 1488	23 24	21 47	—	—	25 1	11.4
1566 May 4 Sat.	Vaiśākha 1489	4 7	2 16	3 17	4 57	5 58	t.
1566 Oct. 28 Mon.	Kārttika 1489	14 32	12 42	13 44	15 20	16 22	t.
1567 Apr. 23 Wed.	Vaiśākha 1490	8 19	7 14	—	—	9 24	4.1
1567 Oct. 18 Sat.	Kārttika 1490	0 59	0 14	—	—	1 44	1.9
1569 Mar. 3 Thur.	Phālguna 1491	3 8	1 24	2 39	3 37	4 52	t.
1569 Aug. 26 Fri.	Bhādrapada 1492	12 11	10 36	—	—	13 46	10.6
1570 Feb. 20 Mon.	Phālguna 1492	17 16	15 29	16 37	17 55	19 3	t.
1570 Aug. 15 Tues.	Bhādrapada I. 1493	19 48	17 59	19 4	20 32	21 37	t.
1571 Aug. 5 Sun.	Śrāvana 1494	9 56	9 16	—	—	10 36	1.5
1572 June 25 Wed.	Āshāḍha 1495	19 54	18 47	—	—	21 1	4.4
1572 Dec. 19 Fri.	Pauṣa 1495	8 58	7 25	—	—	10 31	10.1
1573 June 15 Mon.	Āshāḍha I. 1496	8 35	6 44	7 45	9 25	10 26	t.
1573 Dec. 8 Tues.	Mārgaśīrsha 1496	18 16	16 26	17 28	19 4	20 6	t.
1574 June 4 Fri.	Jyeshtha 1497	14 12	12 53	—	—	15 31	6.7
1574 Nov. 28 Sun.	Mārgaśīrsha 1497	8 54	7 47	—	—	10 1	4.4
1576 Apr. 13 Fri.	Vaiśākha 1499	6 12	4 40	—	—	7 44	9.6
1576 Oct. 7 Sun.	Āśvina 1499	21 35	20 0	—	—	23 10	10.6
1577 Apr. 2 Tues.	Chaitra 1500	19 11	17 21	18 22	20 0	21 1	t.
1577 Sept. 26 Thur.	Āśvina 1500	23 17	21 27	22 31	24 3	25 7	t.
1578 Mar. 23 Sun.	Chaitra 1501	11 36	10 38	—	—	12 34	3.3
1578 Sept. 15 Mon.	Āśvina I. 1501	23 24	22 35	—	—	24 13	2.3
1580 Jan. 31 Sun.	Māgha 1502	20 40	19 0	20 24	20 56	22 20	t.
1580 July 26 Tues.	Śrāvana 1503	10 9	8 23	9 31	10 47	11 55	t.
1581 Jan. 19 Thur.	Māgha 1503	20 24	18 37	19 43	21 5	22 11	t.
1581 July 16 Sun.	Śrāvana I. 1504	3 12	1 28	2 42	3 42	4 56	t.
1582 Jan. 8 Mon.	Pauṣa 1504	21 13	20 33	—	—	21 53	1.5
1583 May 26*Sun.	Jyeshtha 1506	10 13	9 2	—	—	11 24	5.1
1583 Nov. 19 Tues.	Mārgaśīrsha 1506	8 9	6 32	—	—	9 46	11.2
1584 May 14 Thur.	Jyeshtha 1507	10 43	8 51	9 51	11 35	12 35	t.
1584 Nov. 7 Sat.	Kārttika 1507	23 2	21 12	22 13	23 51	24 52	t.
1585 May 3 Mon.	Vaiśākha 1508	15 25	14 11	—	—	16 39	5.7
1585 Oct. 28 Thur.	Kārttika 1508	9 5	8 16	—	—	9 54	2.3
1587 Mar. 14 Tues.	Chaitra 1510	11 23	9 41	11 1	11 45	13 5	t.
1587 Sept. 6 Wed.	Bhādrapada 1510	19 25	17 54	—	—	20 56	9.4
1588 Mar. 2 Sat.	Phālguna 1510	25 27	23 39	24 45	26 9	27 15	t.
1588 Aug. 26 Mon.	Bhādrapada 1511	3 15	1 25	2 28	4 2	5 5	t.
1589 Aug. 15 Fri.	Bhādrapada I. 1512	17 38	16 43	—	—	18 33	2.9
1590 July 7 Tues.	Āshāḍha 1513	3 12	2 20	—	—	4 4	2.6
1590 Dec. 30 Wed.	Pauṣa 1513	17 17	15 44	—	—	18 50	9.9
1591 June 26 Sat.	Āshāḍha 1514	15 32	13 42	14 44	16 20	17 22	t.

TABLE E.

A. D. Year, Month, and Day.	Hindu Month and Current Śaka Year. ["w. m. i." = with mean intercalations.]	Time measured from Lāṅka mean sunrise, taken as 6 A. M.					Number of twelfths eclipsed. ["t." = total eclipse.]
		Greatest phase. [i.e. moment of full moon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.	
				Begin- ning.	End.		
1	2	3	4	5	6	7	8
1591. Dec. 20 Mon.	Pausha 1514	3 3	1 13	2 14	3 52	4 53	t.
1592 June 14 Wed.	Āshāḍha 1 1515	20 41	19 13	—	—	22 9	8.5
1592 Dec. 8 Fri.	Mārgaśīrsha 1515	17 42	16 35	—	—	18 49	4.5
1594 Apr. 24 Wed.	Vaiśākha 1517	13 36	12 8	—	—	15 4	8.4
1594 Oct. 19 Sat.	Kārttika 1517	5 22	3 49	—	—	6 55	9.9
1595 Apr. 14 Mon.	Vaiśākha 1518	2 59	1 8	2 9	3 49	4 50	t.
1595 Oct. 8 Wed.	Āśvina 1518	6 40	4 50	5 52	7 28	8 30	t.
1596 Apr. 2 Fri.	Chaitra 1519	19 35	18 28	—	—	20 42	4.4
1596 Sept. 26 Sun.	Āśvina 1519	6 46	5 49	—	—	7 43	3.1
1598 Feb. 11 Sat.	Māgha 1520	4 32	2 54	—	—	6 10	11.8
1598 Aug. 6 Sun.	Śrāvaṇa 1521	17 50	16 6	17 19	18 21	19 34	t.
1599 Jan. 31 Wed.	Māgha 1521	4 14	2 26	3 32	4 56	6 2	t.
1599 July 27 Fri.	Śrāvaṇa 1522	10 42	8 56	10 4	11 20	12 28	t.
1600 Jan. 20 Sun.	Māgha 1522	5 27	4 43	—	—	6 11	1.8
1601 June 5 Fri.	Jyeshṭha 1524	16 39	15 41	—	—	17 37	3.3
1601 Nov. 29 Sun.	Mārgaśīrsha 1524	17 0	15 24	—	—	18 36	11.1
1602 May 25 Tues.	Jyeshṭha 1525	17 21	15 30	16 31	18 11	19 12	t.
1602. Nov. 19 Fri.	Mārgaśīrsha 1525	7 40	5 50	6 51	8 29	9 30	t.
1603 May 14 Sat.	Jyeshṭha 1526	22 33	21 10	—	—	23 56	7.4
1603 Nov. 8 Tues.	Kārttika 1526	17 11	16 19	—	—	18 3	2.6
1605 Mar. 24 Sun.	Chaitra 1528	19 27	17 47	19 17	19 37	21 7	t.
1605 Sept. 17 Tues.	Āśvina 1528	2 45	1 17	—	—	4 13	8.4
1606 Mar. 14 Fri.	Chaitra I 1529	9 24	7 35	8 40	10 8	11 13	t.
1606 Sept. 6 Sat.	Bhādrapada 1529	10 57	9 6	10 7	11 47	12 48	t.
1607 Aug. 27 Thur.	Bhādrapada 1530	1 30	0 26	—	—	2 34	4.0
1608 July 17 Sun.	Śrāvaṇa 1531	10 34	10 3	—	—	11 5	0.9
1609 Jan. 10 Tues.	Pausha 1531	1 42	0 10	—	—	3 14	9.8
1609 July 6 Thur.	Āshāḍha 1532	22 26	20 37	21 43	23 9	24 15	t.
1609 Dec. 30 Sat.	Pausha 1532	11 46	9 56	10 57	12 35	13 36	t.
1610 June 26 Tues.	Āshāḍha 1533	3 10	1 36	—	—	4 44	10.2
1610 Dec. 20 Thur.	Pausha 1533	2 42	1 33	—	—	3 51	4.7
1612 May 4 Mon.	Vaiśākha 1535	20 51	19 30	—	—	22 12	7.0
1612 Oct. 29 Thur.	Kārttika 1535	13 20	11 50	—	—	14 50	9.1
1613 Apr. 24 Sat.	Vaiśākha 1536	10 43	8 51	9 52	11 34	12 35	t.
1613 Oct. 18 Mon.	Kārttika 1536	14 10	12 20	13 21	14 59	16 0	t.
1614 Apr. 14 Thur.	Vaiśākha 1537	3 30	2 17	—	—	4 43	5.4
1614 Oct. 7 Fri.	Āśvina 1537	14 21	13 17	—	—	15 25	4.0
1616 Feb. 22 Thur.	Phālguna 1538	12 16	10 39	—	—	13 53	11.3
1616 Aug. 16 Fri.	Bhādrapada 1539	25 37	23 56	25 17	25 57	27 18	t.
1617 Feb. 10 Mon.	Māgha 1539	11 59	10 10	11 15	12 43	13 48	t.
1617 Aug. 6 Wed.	Śrāvaṇa 1540	18 16	16 27	17 32	19 0	20 5	t.
1618 Jan. 30 Fri.	Māgha 1540	13 35	12 47	—	—	14 23	2.2
1619 June 16 Wed.	Āshāḍha 1542	23 4	22 25	—	—	23 43	1.4
1619 Dec. 11 Sat.	Mārgaśīrsha 1542	1 51	0 15	—	—	3 27	10.9
1620 June 4 Sun.	Jyeshṭha 1543	23 53	22 3	23 5	24 41	25 43	t.
1620 Nov. 29 Wed.	Mārgaśīrsha 1543	16 20	14 30	15 31	17 9	18 10	t.
1621 May 25 Fri.	Jyeshṭha 1544	5 34	4 3	—	—	7 5	9.4
1621 Nov. 19 Mon.	Mārgaśīrsha 1544	1 23	0 28	—	—	2 18	2.9
1623 Apr. 5 Sat.	Chaitra 1546	3 25	1 49	—	—	5 1	10.9
1623 Sept. 28 Sun.	Āśvina 1546	10 20	8 57	—	—	11 43	7.4

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A. D. Year, Month, and Day.	Hindu Month and Current Śaka Year. ["w. m. t." = with mean intercalations.]	Time measured from Lāika mean sunrise, taken as 6 A. M.						Number of twelfths eclipsed. ["t." = total eclipse.]
		Greatest phase. [i.e. moment of full moon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.		
				Begin- ning.	End.			
							h. m.	
1	2	3	4	5	6	7	8	
1624 Mar. 24 Wed.	Chaitra..... 1547	17 12	15 22	16 25	17 59	19 2	t.	
1624 Sept. 16 Thur.	Āśvina..... 1547	18 43	16 51	17 52	19 34	20 35	t.	
1625 Mar. 13 Sun.	Chaitra I..... 1548	24 12	23 46	—	—	24 38	0·6	
1625 Sept. 6 Tues.	Bhādrapada..... 1548	9 26	8 14	—	—	10 38	5·3	
1627 Jan. 21 Sun.	Māgha..... 1549	9 59	8 26	—	—	11 32	10·0	
1627 July 18 Wed.	Śrāvaṇa I..... 1550	5 22	3 36	4 46	5 58	7 8	t.	
1628 Jan. 10 Thur.	Pauṣa..... 1550	20 31	18 41	19 42	21 20	22 21	t.	
1628 July 6 Sun.	Āshāḍha..... 1551	9 40	8 0	9 30	9 50	11 20	t.	
1628 Dec. 30 Tues.	Pauṣa..... 1551	11 32	10 23	—	—	12 41	4·7	
1630 May 16 Sun.	Jyeshṭha..... 1553	4 3	2 51	—	—	5 15	5·3	
1630 Nov. 9 Tues.	Kārttika..... 1553	21 21	19 53	—	—	22 49	8·5	
1631 May 5 Thur.	Vaiśākha..... 1554	18 17	16 25	17 25	19 9	20 9	t.	
1631 Oct. 29 Sat.	Kārttika..... 1554	21 55	20 4	21 5	22 45	23 46	t.	
1632 Apr. 24 Tues.	Vaiśākha..... 1555	11 16	9 56	—	—	12 36	6·8	
1632 Oct. 17 Wed.	Kārttika..... 1555	22 4	20 54	—	—	23 14	4·8	
1634 Mar. 4 Tues.	Phālguna..... 1556	19 55	18 20	—	—	21 30	10·6	
1634 Aug. 28 Thur.	Bhādrapada..... 1557	9 23	7 46	—	—	11 0	11·4	
1635 Feb. 21 Sat.	Phālguna..... 1557	19 39	17 49	18 53	20 25	21 29	t.	
1635 Aug. 18 Tues.	Bhādrapada I..... 1558	1 52	0 2	1 5	2 39	3 42	t.	
1636 Feb. 10 Wed.	Māgha..... 1558	21 39	20 46	—	—	22 32	2·7	
1636 Aug. 6 Sat.	Śrāvaṇa..... 1559	14 33	14 7	—	—	14 59	0·6	
1637 Dec. 21 Thur.	Pauṣa..... 1560	10 43	9 7	—	—	12 19	10·9	
1638 June 16 Sat.	Āshāḍha..... 1561	6 26	4 38	5 41	7 8	8 14	t.	
1638 Dec. 10 Mon.	Mārgaśīrṣa..... 1561	25 1	23 11	24 12	25 50	26 51	t.	
1639 June 5 Wed.	Jyeshṭha..... 1562	12 35	10 59	—	—	14 11	11·1	
1639 Nov. 30 Sat.	Mārgaśīrṣa..... 1562	9 41	8 46	—	—	10 36	2·0	
1641 Apr. 15 Thur.	Vaiśākha..... 1564	11 20	9 47	—	—	12 53	9·9	
1641 Oct. 8 Fri.	Āśvina..... 1564	18 0	16 41	—	—	19 19	6·6	
1642 Apr. 4 Mon.	Chaitra..... 1565	24 55	23 5	24 6	25 41	26 45	t.	
1642 Sept. 28 Wed.	Āśvina..... 1565	2 45	0 53	1 54	3 36	4 37	t.	
1643 Mar. 25 Sat.	Chaitra..... 1566	7 31	6 51	—	—	8 17	1·7	
1643 Sept. 17 Sun.	Āśvina..... 1566	17 26	16 9	—	—	18 43	6·2	
1645 Jan. 31 Fri.	Māgha..... 1567	18 13	16 41	—	—	19 45	9·6	
1645 July 28 Mon.	Śrāvaṇa..... 1568	12 21	10 38	11 55	12 47	14 4	t.	
1646 Jan. 21 Wed.	Māgha..... 1568	5 7	3 17	4 18	5 56	6 57	t.	
1646 July 17 Fri.	Śrāvaṇa I..... 1569	16 11	14 27	15 40	16 42	17 55	t.	
1647 Jan. 10 Sun.	Pauṣa..... 1569	20 25	19 16	—	—	21 34	4·7	
1648 May 26 Fri.	Jyeshṭha..... 1571	11 17	10 13	—	—	12 21	4·0	
1648 Nov. 20 Mon.	Mārgaśīrṣa..... 1571	5 29	4 2	—	—	6 56	8·3	
1649 May 16 Wed.	Jyeshṭha..... 1572	1 53	0 1	1 2	2 44	3 45	t.	
1649 Nov. 9 Fri.	Kārttika..... 1572	5 41	3 50	4 51	6 31	7 32	t.	
1650 May 5 Sun.	Vaiśākha..... 1573	18 57	17 30	—	—	20 24	8·2	
1650 Oct. 29 Tues.	Kārttika..... 1573	5 55	4 42	—	—	7 8	5·4	
1652 Mar. 15 Mon.	Chaitra..... 1575	3 18	1 47	—	—	4 49	9·5	
1652 Sept. 7 Tues.	Bhādrapada..... 1575	17 23	15 49	—	—	18 57	10·3	
1653 Mar. 4 Fri.	Phālguna..... 1575	3 5	1 15	2 17	3 53	4 55	t.	
1653 Aug. 28 Sun.	Bhādrapada..... 1576	9 40	7 50	8 51	10 29	11 30	t.	
1654 Feb. 21 Tues.	Phālguna..... 1576	5 33	4 35	—	—	6 31	3·3	
1654 Aug. 17 Thur.	Bhādrapada I..... 1577	21 46	21 0	—	—	22 32	2·0	
1656 Jan. 1 Tues.	Pauṣa..... 1578	19 36	18 1	—	—	21 11	10·8	

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		Greatest phase. [i.e. moment of full moon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.		
				Begin- ning.	End.			
1	2	3	4	5	6	7	8	
1656 June 26 Thnr.	Āshāḍha.....	1579	12 55	11 10	12 20	13 30	14 40	t.
1656 Dec. 21 Sun.	Pausa.....	1579	9 42	7 52	8 53	10 31	11 32	t.
1657 June 15 Mon.	Āshāḍha.....	1580	19 36	17 55	19 17	19 55	21 17	t.
1657 Dec. 10 Thur.	Mārgaśīrsha.....	1580	17 56	17 0	—	—	18 52	3.0
1659 Apr. 26 Tues.	Vaiśākha.....	1582	19 1	17 38	—	—	20 29	8.6
1659 Oct. 20 Thur.	Kārttika.....	1582	1 56	0 41	—	—	3 11	5.9
1660 Apr. 15 Sun.	Vaiśākha.....	1583	8 24	6 33	7 34	9 14	10 15	t.
1660 Oct. 8 Mon.	Āsvina.....	1583	10 52	9 0	10 0	11 44	12 44	t.
1661 Apr. 4 Thur.	Chaitra.....	1584	14 49	13 55	—	—	15 43	2.8
1661 Sept. 28 Sat.	Āsvina.....	1584	1 40	0 19	—	—	3 1	7 0
1663 Feb. 12 Thur.	Phālguna.....	1585	2 26	0 55	—	—	3 57	9.2
1663 Aug. 8 Sat.	Śrāvaṇa.....	1586	19 21	17 42	—	—	21 0	11.9
1664 Feb. 1 Mon.	Māgha.....	1586	13 47	11 57	12 58	14 36	15 37	t.
1664 July 27 Wed.	Śrāvaṇa.....	1587	22 41	20 54	22 2	23 20	24 28	t.
1665 Jan. 21 Sat.	Māgha.....	1587	5 14	4 3	—	—	6 25	5.0
1666 June 6 Wed.	Jyeshtha.....	1589	18 25	17 34	—	—	19 16	2.5
1666 Dec. 1 Sat.	Mārgaśīrsha.....	1589	13 35	12 10	—	—	15 0	7.9
1667 May 27 Mon.	Jyeshtha.....	1590	9 23	7 32	8 33	10 13	11 14	t.
1667 Nov. 20 Wed.	Mārgaśīrsha.....	1590	13 33	11 41	12 42	14 24	15 25	t.
1668 May 16 Sat.	Jyeshtha.....	1591	2 32	1 0	—	—	4 4	9.7
1668 Nov 8 Sun.	Kārttika.....	1591	13 55	12 40	—	—	15 10	5.8
1670 Mar. 26 Sat.	Chaitra.....	1593	10 33	9 5	—	—	12 1	8.6
1670 Sept. 18 Sun.	Āsvina.....	1593	25 27	23 56	—	—	26 58	9.3
1671 Mar. 15 Wed.	Chaitra.....	1594	10 24	8 33	9 34	11 14	12 15	t.
1671 Sept. 8 Fri.	Bhādrapada.....	1594	17 27	15 36	16 37	18 17	19 18	t.
1672 Mar. 3 Sun.	Phālguna.....	1594	13 24	12 20	—	—	14 28	4.0
1672 Aug. 28 Wed.	Bhādrapada.....	1595	5 7	4 10	—	—	6 4	3.1
1674 Jan. 12 Mon.	Pausa.....	1596	4 26	2 51	—	—	6 1	10.6
1674 July 7 Tues.	Āshāḍha.....	1597	19 34	17 52	19 13	19 55	21 16	t.
1675 Jan. 1 Fri.	Pausa.....	1597	18 22	16 32	17 33	19 11	20 12	t.
1675 June 27 Sun.	Āshāḍha.....	1598	2 39	0 54	2 4	3 14	4 24	t.
1675 Dec. 22 Wed.	Pausa.....	1598	2 20	1 25	—	—	3 15	2.9
1677 May 7 Mon.	Vaiśākha.....	1600	2 36	1 16	—	—	3 56	6.9
1677 Oct. 30 Tues.	Kārttika.....	1600	9 58	8 44	—	—	11 12	5.6
1678 Apr. 26 Fri.	Vaiśākha.....	1601	15 48	13 56	14 56	16 40	17 40	t.
1678 Oct. 19 Sat.	Kārttika.....	1601	19 11	17 19	18 19	20 3	21 3	t.
1679 Apr. 15 Tues.	Vaiśākha.....	1602	21 52	20 48	—	—	22 56	4.0
1679 Oct. 9 Thur.	Āsvina.....	1602	9 59	8 35	—	—	11 23	7.7
1681 Feb. 22 Tues.	Phālguna.....	1603	10 32	9 3	—	—	12 1	8.8
1681 Aug. 19 Fri.	Bhādrapada.....	1604	2 28	0 54	—	—	4 2	10.3
1682 Feb. 11 Sat.	Phālguna.....	1604	22 19	20 28	21 29	23 9	24 10	t.
1682 Aug. 8 Tues.	Śrāvaṇa.....	1605	5 20	3 31	4 35	6 5	7 9	t.
1683 Feb. 1 Thur.	Māgha.....	1605	13 54	12 42	—	—	15 6	5.3
1683 July 28 Sat.	Śrāvaṇa.....	1606	5 53	5 17	—	—	6 29	1.2
1684 June 17 Tues.	Āshāḍha.....	1607	1 33	1 5	—	—	2 1	0.7
1684 Dec. 11 Thur.	Mārgaśīrsha.....	1607	21 48	20 23	—	—	23 13	7.9
1685 June 6 Sat.	Jyeshtha.....	1608	16 49	14 59	16 2	17 36	18 39	t.
1685 Nov. 30 Mon.	Mārgaśīrsha.....	1608	21 31	19 39	20 40	22 22	23 23	t.
1686 May 27 Thur.	Jyeshtha.....	1609	10 3	8 26	—	—	11 40	11.2
1686 Nov. 19 Fri.	Mārgaśīrsha.....	1609	22 4	20 48	—	—	23 20	6.1

TABLE E.

A. D. Year, Month, and Day.	Hindu Month and Current Śaka Year. ["w. m. t." = with mean intercalations.]	Time measured from Lauka mean sunrise, taken as 6 A. M.					Number of twelfths eclipsed. ["t." = total eclipse.]
		Greatest phase. [i.e. mo- ment of full moon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.	
				Begin- ning.	End.		
1	2	3	4	5	6	7	8
1688 Apr. 5 Thur.	Chaitra 1611	17 38	16 16	—	—	19 0	7·3
1688 Sept. 29 Sat.	Āśvina 1611	9 39	8 11	—	—	11 7	8·5
1689 Mar. 25 Mon.	Chaitra 1612	17 39	15 47	16 48	18 30	19 31	t.
1689 Sept. 18 Wed.	Āśvina 1612	25 24	23 32	24 33	26 15	27 16	t.
1690 Mar. 14 Fri.	Chaitra 1613	21 7	19 57	—	—	22 17	4·9
1690 Sept. 8 Mon.	Bhādrapada 1613	12 33	11 27	—	—	13 39	4·3
1692 Jan. 23 Sat.	Māgha 1614	13 14	11 40	—	—	14 48	10·4
1692 July 18 Mon.	Śrāvāṇa 1615	2 13	0 37	—	—	3 49	10·9
1693 Jan. 12 Thur.	Pauṣa 1615	3 3	1 12	2 13	3 53	4 54	t.
1693 July 7 Fri.	Āshāḍha 1616	9 43	7 55	9 1	10 25	11 31	t.
1694 Jan. 1 Mon.	Pauṣa 1616	10 36	9 40	—	—	11 32	3·0
1694 June 26 Tues.	Āshāḍha 1617	23 55	23 34	—	—	24 16	0·4
1695 May 18 Sat.	Jyeshṭha 1618	10 8	8 55	—	—	11 21	5·5
1695 Nov. 10 Sun.	Kārttika 1618	18 2	16 50	—	—	19 14	5·2
1696 May 6 Wed.	Vaiśākha 1619	23 2	21 10	22 10	23 54	24 54	t.
1696 Oct. 30 Fri.	Kārttika 1619	3 32	1 40	2 40	4 24	5 24	t.
1697 Apr. 26 Mon.	Vaiśākha 1620	4 47	3 33	—	—	6 1	5·7
1697 Oct. 19 Tues.	Kārttika 1620	18 29	17 2	—	—	19 56	8·2
1699 Mar. 5 Sun.	Phālguna 1621	18 23	17 1	—	—	19 55	8·2
1699 Aug. 30 Wed.	Bhādrapada 1622	9 40	8 11	—	—	11 9	8·8
1700 Feb. 23 Fri.	Phālguna 1622	6 43	4 52	5 53	7 33	8 34	t.
1700 Aug. 18 Sun.	Bhādrapada 1623	12 3	10 13	11 14	12 52	13 53	t.
1701 Feb. 11 Tues.	Māgha 1623	22 31	21 17	—	—	23 45	5·6
1701 Aug. 7 Thur.	Śrāvāṇa 1624	12 38	11 45	—	—	13 31	2·7
1702 Dec. 23 Wed.	Pauṣa 1625	6 0	4 37	—	—	7 23	7·5
1703 June 17 Thur.	Āshāḍha 1626	24 19	22 31	23 37	25 1	26 7	t.
1703 Dec. 12 Sun.	Mārgaśīrsha 1626	5 32	3 40	4 41	6 23	7 24	t.
1704 June 6 Tues.	Jyeshṭha 1627	17 29	15 47	17 8	17 50	19 11	t.
1704 Nov. 30 Thur.	Mārgaśīrsha 1627	6 16	4 58	—	—	7 34	6·5
1706 Apr. 16 Tues.	Vaiśākha 1629	24 36	23 22	—	—	25 50	5·7
1706 Oct. 10 Thur.	Āśvina 1629	18 4	16 40	—	—	19 28	7·7
1707 Apr. 5 Sat.	Chaitra 1630	24 45	22 53	23 53	25 37	26 37	t.
1707 Sept. 30 Tues.	Āśvina 1630	9 27	7 35	8 35	10 19	11 19	t.
1708 Mar. 25 Thur.	Chaitra 1631	4 42	3 26	—	—	5 58	6·1
1708 Sept. 18 Sat.	Āśvina 1631	20 2	18 50	—	—	21 14	5·2
1710 Feb. 2 Thur.	Māgha 1632	21 55	20 22	—	—	23 28	10·1
1710 July 29 Sat.	Śrāvāṇa 1633	9 0	7 29	—	—	10 31	9·4
1711 Jan. 23 Tues.	Māgha 1633	11 34	9 43	10 44	12 24	13 25	t.
1711 July 18 Wed.	Śrāvāṇa 1634	16 55	15 5	16 8	17 42	18 45	t.
1712 Jan. 12 Sat.	Pauṣa 1634	18 51	17 53	—	—	19 49	3·2
1712 July 7 Mon.	Āshāḍha 1635	7 26	6 37	—	—	8 15	2·3
1713 May 28 Thur.	Jyeshṭha 1636	17 34	16 31	—	—	18 37	3·9
1713 Nov. 21 Sat.	Mārgaśīrsha 1636	2 20	1 9	—	—	3 31	5·0
1714 May 18 Tues.	Jyeshṭha 1637	6 11	4 20	5 21	7 1	8 2	t.
1714 Nov. 10 Wed.	Kārttika 1637	12 5	10 13	11 14	12 56	13 57	t.
1715 May 7 Sat.	Vaiśākha 1638	11 34	10 12	—	—	12 56	7·3
1715 Oct. 31 Mon.	Kārttika 1638	3 3	1 33	—	—	4 33	8·9
1717 Mar. 16 Sat.	Chaitra 1640	2 18	0 55	—	—	3 41	7·4
1717 Sept. 9 Mon.	Bhādrapada 1640	16 57	15 34	—	—	18 20	7·5
1718 Mar. 5 Wed.	Phālguna 1640	14 58	13 6	14 7	15 49	16 50	t.

TABLE E.

A. D. Year, Month, and Day.	Hindu Month and Current Śaka Year. ["w. m. i." = with mean intercalations.]	Time measured from Lanka mean sunrise, taken as 6 A. M.					Number of twelfths eclipsed. ["t." = total eclipse.]
		Greatest phase. [i. e. moment of full moon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.	
				Begin- ning.	End.		
1	2	3	4	5	6	7	8
1718 Aug. 29 Fri.	Bhādrapada 1641	18 55	17 3	18 4	19 46	20 47	t.
1719 Feb. 23 Mon.	Phālguna 1641	7 3	5 47	—	—	8 19	6.1
1719 Aug. 18 Tues.	Bhādrapada 1642	19 28	18 21	—	—	20 35	4.4
1721 Jan. 2 Mon.	Pausha 1643	14 11	12 48	—	—	15 34	7.4
1721 June 28 Wed.	Āshāḍha 1644	7 46	6 1	7 11	8 21	9 31	t.
1721 Dec. 22 Fri.	Pausha 1644	13 38	11 46	12 47	14 29	15 30	t.
1722 June 17 Sun.	Āshāḍha 1645	24 55	23 10	24 22	25 28	26 40	t.
1722 Dec. 11 Tues.	Mārgaśīrsha 1645	14 33	13 14	—	—	15 52	6.7
1724 Apr. 27 Mon.	Vaiśākha 1647	7 22	6 17	—	—	8 27	4.2
1724 Oct. 21 Wed.	Kārttika 1647	2 32	1 10	—	—	3 54	7.2
1725 Apr. 16 Fri.	Vaiśākha 1648	7 42	5 51	6 52	8 32	9 33	t.
1725 Oct. 10 Sun.	Āśvina 1648	17 38	15 46	16 46	18 30	19 30	t.
1726 Apr. 5 Tues.	Chaitra 1649	12 11	10 49	—	—	13 33	7.3
1726 Sept. 30 Fri.	Āśvina 1649	3 40	2 24	—	—	4 56	6.0
1728 Feb. 14 Wed.	Phālguna 1650	6 32	5 0	—	—	8 4	9.7
1728 Aug. 8 Thur.	Śrāvaṇa 1651	15 53	14 28	—	—	17 18	7.8
1729 Feb. 2 Sun.	Māgha 1651	20 1	18 10	19 11	20 51	21 52	t.
1729 July 28 Mon.	Śrāvaṇa 1652	24 8	22 17	23 18	24 58	25 59	t.
1730 Jan. 23 Fri.	Māgha 1652	2 59	2 0	—	—	3 58	3.4
1730 July 18 Sat.	Śrāvaṇa 1653	14 54	13 51	—	—	15 57	3.9
1731 June 9 Wed.	Jyeshtha 1654	0 53	0 5	—	—	1 41	2.2
1731 Dec. 2 Thur.	Mārgaśīrsha 1654	10 40	9 30	—	—	11 50	4.8
1732 May 28 Sun.	Jyeshtha 1655	13 10	11 20	12 22	13 58	15 0	t.
1732 Nov. 20 Mon.	Mārgaśīrsha 1655	20 42	18 50	19 51	21 33	22 34	t.
1733 May 17 Thur.	Jyeshtha 1656	18 12	16 42	—	—	19 42	9.1
1733 Nov. 10 Sat.	Kārttika 1656	11 42	10 12	—	—	13 12	8.9
1735 Mar. 27 Thur.	Chaitra 1658	10 3	8 45	—	—	11 21	6.5
1735 Sept. 20 Sat.	Āśvina 1658	24 21	23 4	—	—	25 38	6.3
1736 Mar. 15 Mon.	Chaitra 1659	23 12	21 20	22 20	24 4	25 4	t.
1736 Sept. 9 Thur.	Bhādrapada 1659	1 56	0 4	1 4	2 48	3 48	t.
1737 Mar. 5 Sat.	Phālguna 1659	15 27	14 8	—	—	16 46	6.7
1737 Aug. 29 Mon.	Bhādrapada 1660	2 28	1 12	—	—	3 44	6.0
1739 Jan. 13 Sat.	Pausha 1661	22 18	20 56	—	—	23 40	7.3
1739 July 9 Mon.	Āshāḍha 1662	15 12	13 29	14 47	15 37	16 55	t.
1740 Jan. 2 Wed.	Pausha 1662	21 37	19 45	20 46	22 28	23 29	t.
1740 June 28 Sat.	Āshāḍha 1663	8 17	6 30	7 36	8 58	10 4	t.
1740 Dec. 21 Sun.	Pausha 1663	22 50	21 30	—	—	24 10	6.8
1742 May 8 Sat.	Vaiśākha 1665	14 0	13 8	—	—	14 52	2.6
1742 Nov. 1 Mon.	Kārttika 1665	11 6	9 47	—	—	12 25	6.7
1743 Apr. 27 Wed.	Vaiśākha 1666	14 31	12 41	13 42	15 20	16 21	t.
1743 Oct. 22 Sat.	Kārttika 1666	1 54	0 2	1 3	2 45	3 46	t.
1744 Apr. 15 Sun.	Vaiśākha 1667	19 32	18 4	—	—	21 0	8.6
1744 Oct. 10 Wed.	Āśvina 1667	11 31	10 11	—	—	12 51	6.8
1746 Feb. 24 Mon.	Phālguna 1668	14 57	13 26	—	—	16 28	9.2
1746 Aug. 19 Tues.	Bhādrapada 1669	22 50	21 34	—	—	24 6	6.1
1747 Feb. 14 Sat.	Phālguna 1669	4 21	2 30	3 31	6 11	6 12	t.
1747 Aug. 9 Sun.	Śrāvaṇa 1670	7 30	5 38	6 39	8 21	9 22	t.
1748 Feb. 3 Wed.	Māgha 1670	11 3	10 2	—	—	12 4	3.6
1748 July 28 Thur.	Śrāvaṇa 1671	22 25	21 12	—	—	23 38	5.4
1749 June 19 Mon.	Āshāḍha 1672	8 15	7 49	—	—	8 41	0.6

TABLE E.

A. D. Year, Month, and Day.	Hindu Month and Current Śaka Year. ["w. m. i." = with mean intercalations.]	Time measured from Lāika mean sunrise, taken as 6 A. M.					Number of twelfths eclipsed. ["t." = total eclipse.]
		Greatest phase. [i. e. mo- ment of fullmoon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.	
				Begin- ning.	End.		
1	2	3	4	5	6	7	8
1749 Dec. 12 Tues.	Mārgaśīrsha..... 1672	19 6	17 55	—	—	20 17	5.1
1750 June 8 Fri.	Jyeshtha..... 1673	20 5	18 17	19 23	20 47	21 53	t.
1750 Dec. 2 Sun.	Mārgaśīrsha..... 1673	5 24	3 32	4 33	6 15	7 16	t.
1751 May 28 Tues.	Jyeshtha..... 1674	24 46	23 10	—	—	26 22	10.9
1751 Nov. 21 Thur.	Mārgaśīrsha..... 1674	20 29	18 58	—	—	22 0	9.2
NEW STYLE.							
1753 Apr. 17 Tues.	Chaitra..... 1676	17 38	16 25	—	—	18 51	5.5
1753 Oct. 12 Fri.	Āśvina..... 1676	7 52	6 40	—	—	9 4	5.2
1754 Apr. 7 Sun.	Chaitra..... 1677	7 12	5 20	6 20	8 4	9 4	t.
1754 Oct. 1 Tues.	Āśvina..... 1677	9 1	7 9	8 10	9 52	10 53	t.
1755 Mar. 27 Thur.	Chaitra..... 1678	23 40	22 16	—	—	25 4	7.6
1755 Sept. 20 Sat.	Bhādrapada..... 1678	9 37	8 15	—	—	10 59	7.2
1757 Feb. 4 Fri.	Māgha..... 1679	6 17	4 57	—	—	7 37	6.9
1757 July 30 Sat.	Śrāvaṇa..... 1680	22 43	21 5	—	—	24 21	11.7
1758 Jan. 24 Tues.	Pauṣa..... 1680	5 36	3 44	4 44	6 25	7 28	t.
1758 July 20 Thur.	Āshāḍha..... 1681	15 38	13 45	14 52	16 24	17 28	t.
1759 Jan. 13 Sat.	Pauṣa..... 1681	7 10	5 50	—	—	8 30	6.9
1760 May 29 Thur.	Jyeshtha..... 1683	20 36	20 5	—	—	21 7	0.9
1760 Nov. 22 Sat.	Kārttika..... 1683	19 46	18 29	—	—	21 3	6.3
1761 May 18 Mon.	Vaiśākha..... 1684	21 15	19 25	20 29	22 1	23 5	t.
1761 Nov. 12 Thur.	Kārttika..... 1684	10 18	8 26	9 27	11 9	12 10	t.
1762 May 8 Sat.	Vaiśākha..... 1685	2 49	1 15	—	—	4 23	10.3
1762 Nov. 1 Mon.	Kārttika..... 1685	19 25	18 3	—	—	20 47	7.2
1764 Mar. 17 Sat.	Phālguna..... 1686	23 18	21 50	—	—	24 46	8.4
1764 Sept. 10 Mon.	Bhādrapada..... 1687	6 3	4 53	—	—	7 13	4.9
1765 Mar. 7 Thur.	Phālguna..... 1687	12 36	10 44	11 45	13 27	14 28	t.
1765 Aug. 30 Fri.	Bhādrapada..... 1688	15 2	13 10	14 10	15 54	16 54	t.
1766 Feb. 24 Mon.	Phālguna..... 1688	18 58	17 54	—	—	20 2	4.0
1766 Aug. 20 Wed.	Śrāvaṇa..... 1689	6 4	4 44	—	—	7 24	6.8
1768 Jan. 4 Mon.	Pauṣa..... 1690	3 33	2 23	—	—	4 43	4.9
1768 June 30 Thur.	Āshāḍha..... 1691	2 56	1 11	2 21	3 31	4 41	t.
1768 Dec. 23 Fri.	Mārgaśīrsha..... 1691	14 11	12 19	13 20	15 2	16 3	t.
1769 June 19 Mon.	Jyeshtha..... 1692	7 16	5 35	6 57	7 35	8 57	t.
1769 Dec. 13 Wed.	Mārgaśīrsha..... 1692	5 17	3 46	—	—	6 48	9.3
1771 Apr. 29 Mon.	Vaiśākha..... 1694	1 8	0 1	—	—	2 15	4.4
1771 Oct. 23 Wed.	Āśvina..... 1694	15 33	14 26	—	—	16 40	4.4
1772 Apr. 17 Fri.	Chaitra..... 1695	15 9	13 17	14 18	16 0	17 1	t.
1772 Oct. 11 Sun.	Āśvina..... 1695	10 16	14 25	15 26	17 6	18 7	t.
1773 Apr. 7 Wed.	Chaitra..... 1696	7 46	6 18	—	—	9 14	8.4
1773 Sept. 30 Thur.	Āśvina..... 1696	16 55	15 27	—	—	18 23	8.4
1775 Feb. 15 Wed.	Māgha..... 1697	14 11	12 52	—	—	15 30	6.6
1775 Aug. 11 Fri.	Śrāvaṇa..... 1698	6 20	4 47	—	—	7 53	10.0
1776 Feb. 4 Sun.	Māgha..... 1698	13 32	11 40	12 40	14 24	15 24	t.
1776 July 30 Tues.	Śrāvaṇa..... 1699	23 6	21 16	22 17	23 55	24 56	t.
1777 Jan. 23 Thur.	Pauṣa..... 1699	15 28	14 6	—	—	16 50	7.2
1777 July 20 Sun.	Āshāḍha..... 1700	11 55	11 16	—	—	12 34	1.4
1778 Dec. 4 Fri.	Mārgaśīrsha..... 1701	4 32	3 15	—	—	5 49	6.2
1779 May 30 Sun.	Jyeshtha..... 1702	3 55	2 8	3 15	4 35	5 42	t.
1779 Nov. 23 Tues.	Kārttika..... 1702	18 51	16 59	18 0	19 42	20 43	t.
1780 May 18 Thur.	Vaiśākha..... 1703	10 1	8 23	—	—	11 39	11.8
1780 Nov. 12 Sun.	Kārttika..... 1703	3 23	1 59	—	—	4 47	7.6

ECLIPSES OF THE MOON IN INDIA.

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TABLE E.

A. D. Year, Month, and Day.	Hindu Month and Current Śaka Year. ["w.m.i." = with mean intercalations.]	Time measured from Lanka mean sunrise, taken as 6 A. M.					Number of twelfths eclipsed. ["t." = total eclipse.]
		Greatest phase. [i.e. moment of fullmoon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.	
				Begin- ning.	End.		
1	2	3	4	5	6	7	8
1782 Mar. 29 Fri.	Chaitra 1705	7 31	6 6	—	—	8 56	7·8
1782 Sept. 21 Sat.	Bhādrapada 1705	13 20	12 18	—	—	14 22	3·7
1783 Mar. 18 Tues.	Phālguna 1705	20 37	18 45	19 45	21 29	22 29	t.
1783 Sept. 10 Wed.	Bhādrapada 1706	22 38	20 46	21 47	23 29	24 30	t.
1784 Mar. 7 Sun.	Phālguna 1706	2 42	1 32	—	—	3 52	4·8
1784 Aug. 30 Mon.	Bhādrapada 1707	13 48	12 22	—	—	15 14	8·0
1786 Jan. 14 Sat.	Pauṣa 1708	12 0	10 50	—	—	13 10	4·8
1786 July 11 Tues.	Āshāḍha 1709	9 49	8 8	9 29	10 9	11 30	t.
1787 Jan. 3 Wed.	Pauṣa 1709	22 59	21 7	22 8	23 50	24 51	t.
1787 June 30 Sat.	Āshāḍha 1710	13 43	11 58	13 9	14 17	15 28	t.
1787 Dec. 24 Mon.	Mārgaśīrṣa 1710	14 8	12 37	—	—	15 39	9·4
1789 May 9 Sat.	Vaiśākha 1712	8 32	7 34	—	—	9 30	3·2
1789 Nov. 2 Mon.	Kārttika 1712	23 20	22 18	—	—	24 22	3·8
1790 Apr. 28 Wed.	Vaiśākha 1713	23 1	21 10	22 11	23 51	24 52	t.
1790 Oct. 22 Fri.	Āśvina 1713	23 44	21 54	22 55	24 33	25 34	t.
1791 Apr. 18 Mon.	Chaitra 1714	15 45	14 14	—	—	17 16	9·5
1791 Oct. 11 Tues.	Āśvina 1714	24 27	22 56	—	—	25 58	9·3
1793 Feb. 25 Mon.	Phālguna 1715	22 4	20 49	—	—	23 19	5·9
1793 Aug. 21 Wed.	Śrāvaṇa 1716	14 2	12 33	—	—	15 31	8·8
1794 Feb. 14 Fri.	Māgha 1716	21 26	19 34	20 35	22 17	23 18	t.
1794 Aug. 11 Mon.	Śrāvaṇa 1717	6 33	4 41	5 42	7 24	8 25	t.
1795 Feb. 3 Tues.	Māgha 1717	23 44	22 21	—	—	25 7	7·5
1795 July 31 Fri.	Śrāvaṇa 1718	18 56	17 58	—	—	19 54	3·2
1796 Dec. 14 Wed.	Mārgaśīrṣa 1719	13 22	12 6	—	—	14 38	6·1
1797 June 9 Fri.	Jyeshṭha 1720	10 35	8 51	10 4	11 6	12 19	t.
1797 Dec. 4 Mon.	Mārgaśīrṣa 1720	3 23	1 32	2 33	4 13	5 14	t.
1798 May 29 Tues.	Jyeshṭha 1721	17 12	15 30	16 48	17 36	18 54	t.
1798 Nov. 23 Fri.	Kārttika 1721	11 30	10 5	—	—	12 55	7·9
1800 Apr. 9 Wed.	Chaitra 1723	15 31	14 11	—	—	16 51	6·9
1800 Oct. 2 Thur.	Āśvina 1723	20 47	19 53	—	—	21 41	2·8
1801 Mar. 30 Mon.	Chaitra 1724	4 29	2 37	3 37	5 21	6 21	t.
1801 Sept. 22 Tues.	Bhādrapada 1724	6 21	4 30	5 31	7 11	8 12	t.
1802 Mar. 19 Fri.	Phālguna 1724	10 21	9 8	—	—	11 34	5·4
1802 Sept. 11 Sat.	Bhādrapada 1725	21 39	20 8	—	—	23 10	9·4
1804 Jan. 26 Thur.	Māgha 1726	20 23	19 14	—	—	21 32	4·7
1804 July 22 Sun.	Āshāḍha 1727	16 42	15 6	—	—	18 18	10·9
1805 Jan. 15 Tues.	Pauṣa 1727	7 44	5 52	6 53	8 35	9 36	t.
1805 July 11 Thur.	Āshāḍha 1728	20 8	18 20	19 25	20 51	21 56	t.
1806 Jan. 4 Sat.	Pauṣa 1728	23 5	21 34	—	—	24 36	9·4
1807 May 21 Thur.	Vaiśākha 1730	15 53	15 9	—	—	16 37	1·8
1807 Nov. 15 Sun.	Kārttika 1730	7 13	6 15	—	—	8 11	3·2
1808 May 10 Tues.	Vaiśākha 1731	6 41	4 51	5 52	7 30	8 31	t.
1808 Nov. 3 Thur.	Kārttika 1731	7 18	5 28	6 30	8 6	9 8	t.
1809 Apr. 29 Sat.	Vaiśākha 1732	23 36	22 1	—	—	25 11	10·6
1809 Oct. 23 Mon.	Āśvina 1732	8 8	6 34	—	—	9 42	10·2
1811 Mar. 10 Sun.	Phālguna 1733	5 43	4 31	—	—	6 55	5·3
1811 Sept. 2 Mon.	Bhādrapada 1734	21 48	20 25	—	—	23 11	7·4
1812 Feb. 27 Thur.	Phālguna 1734	5 9	3 17	4 18	6 0	7 1	t.
1812 Aug. 22 Sat.	Śrāvaṇa 1735	14 5	12 13	13 13	14 57	15 57	t.
1813 Feb. 15 Mon.	Māgha 1735	7 54	6 28	—	—	9 20	8·0

TABLE E.

A. D. Year, Month, and Day.	Hindu Month and Current Śaka Year. ["w. m. i." = with mean intercalations.]	Time measured from Lāṅkā mean sunrise, taken as 6 A. M.					Number of twelfths eclipsed. ["t." = total eclipse.]
		Greatest phase. [i. e. moment of full moon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.	
				Begin- ning.	End.		
1	2	3	4	5	6	7	8
1818 Aug. 12 Thur.	Śrāvāṇa 1786	1 55	0 48	—	—	3 2	4.5
1814 Dec. 26 Mon.	Mārgaśīrsha 1737	22 13	20 57	—	—	23 29	6.0
1815 June 21 Wed.	Jyeshṭha 1738	17 11	15 31	16 57	17 25	18 51	t.
1815 Dec. 16 Sat.	Mārgaśīrsha 1738	12 1	10 10	11 11	12 51	13 52	t.
1816 June 9 Sun.	Jyeshṭha 1739	24 20	22 34	23 44	24 56	26 6	t.
1816 Dec. 4 Wed.	Mārgaśīrsha 1739	19 38	18 11	—	—	21 5	8.2
1818 Apr. 20 Mon.	Chaitra 1741	23 28	22 14	—	—	24 42	5.6
1818 Oct. 14 Wed.	Āśvina 1741	4 26	3 42	—	—	5 10	1.8
1819 Apr. 10 Sat.	Chaitra 1742	12 12	10 20	11 21	13 3	14 4	t.
1819 Oct. 3 Sun.	Āśvina 1742	14 15	12 25	13 26	15 4	16 5	t.
1820 Mar. 29 Wed.	Chaitra 1743	17 47	16 29	—	—	19 5	6.4
1820 Sept. 22 Fri.	Bhādrapada 1743	5 37	4 3	—	—	7 11	10.3
1822 Feb. 6 Wed.	Māgha 1744	4 45	3 37	—	—	5 53	4.6
1822 Aug. 2 Fri.	Śrāvāṇa 1745	23 31	22 1	—	—	25 1	9.1
1823 Jan. 26 Sun.	Māgha 1745	16 28	14 36	15 37	17 19	18 20	t.
1823 July 23 Wed.	Āshāḍha 1746	2 35	0 45	1 48	3 22	4 25	t.
1824 Jan. 16 Fri.	Pauṣa 1746	7 56	6 24	—	—	9 28	9.6
1824 July 11 Sun.	Āshāḍha 1747	3 19	2 34	—	—	4 4	1.9
1825 May 31 Tues.	Jyeshṭha 1748	23 12	22 54	—	—	23 30	0.3
1825 Nov. 25 Fri.	Kārttika 1748	15 11	14 17	—	—	16 5	2.8
1826 May 21 Sun.	Vaiśākha 1749	14 19	12 29	13 33	15 5	16 9	t.
1826 Nov. 14 Tues.	Kārttika 1749	15 0	13 10	14 14	15 46	16 50	t.
1827 May 11 Fri.	Vaiśākha 1750	7 19	5 40	7 12	7 26	8 58	t.
1827 Nov. 3 Sat.	Kārttika 1750	15 57	14 22	—	—	17 32	10.6
1829 Mar. 20 Fri.	Phālguna 1751	13 8	12 1	—	—	14 15	4.4
1829 Sept. 13 Sun.	Bhādrapada 1752	5 38	4 21	—	—	6 55	6.3
1830 Mar. 9 Tues.	Phālguna 1752	12 46	10 55	11 56	13 36	14 37	t.
1830 Sept. 2 Thur.	Bhādrapada 1753	21 39	19 47	20 47	22 31	23 31	t.
1831 Feb. 26 Sat.	Phālguna 1753	16 0	14 33	—	—	17 27	8.3
1831 Aug. 23 Tues.	Śrāvāṇa 1754	9 0	7 45	—	—	10 15	5.9
1833 Jan. 6 Sun.	Pauṣa 1755	7 3	5 48	—	—	8 18	5.8
1833 July 1 Mon.	Āshāḍha 1756	23 46	22 12	—	—	25 20	10.5
1833 Dec. 26 Thur.	Mārgaśīrsha 1756	20 35	18 44	19 43	21 25	22 26	t.
1834 June 21 Sat.	Jyeshṭha 1757	7 24	5 35	6 41	8 7	9 13	t.
1834 Dec. 16 Tues.	Mārgaśīrsha 1757	3 50	2 23	—	—	5 17	8.2
1835 June 10 Wed.	Jyeshṭha 1758	21 38	21 3	—	—	22 13	1.1
1836 May 1 Sun.	Vaiśākha 1759	7 12	6 5	—	—	8 19	4.5
1836 Oct. 24 Mon.	Āśvina 1759	12 18	11 39	—	—	12 57	1.4
1837 Apr. 20 Thur.	Chaitra 1760	19 45	17 54	18 55	20 35	21 36	t.
1837 Oct. 13 Fri.	Āśvina 1760	22 20	20 30	21 32	23 8	24 10	t.
1838 Apr. 9 Mon.	Chaitra 1761	25 1	23 38	—	—	26 24	7.5
1838 Oct. 3 Wed.	Āśvina 1761	13 43	12 6	—	—	15 20	11.4
1840 Feb. 17 Mon.	Māgha 1762	13 6	11 59	—	—	14 13	4.5
1840 Aug. 13 Thur.	Śrāvāṇa 1763	6 22	4 59	—	—	7 45	7.4
1841 Feb. 5 Fri.	Māgha 1763	25 11	23 19	24 20	26 2	27 3	t.
1841 Aug. 2 Mon.	Śrāvāṇa 1764	9 2	7 11	8 12	9 52	10 53	t.
1842 Jan. 26 Wed.	Pauṣa 1764	16 46	15 14	—	—	18 18	9.6
1842 July 22 Fri.	Āshāḍha 1765	9 51	8 50	—	—	10 52	3.6
1843 Dec. 6 Wed.	Mārgaśīrsha 1766	23 14	22 23	—	—	24 5	2.5
1844 May 31 Fri.	Jyeshṭha 1767	21 52	20 5	21 11	22 33	23 39	t.

TABLE E.

A. D. Year, Month, and Day.	Hindu Month and Current Śaka Year. ["w. m. i." = with mean intercalations.]	Time measured from Lanka mean sunrise, taken as 6 A. M.					Number of twelfths eclipsed. ["t." = total eclipse.]
		Greatest phase. [i. e. moment of fullmoon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.	
				Begin- ning.	End.		
1	2	3	4	5	6	7	8
1844 Nov. 24 Sun.	Kārttika..... 1767	22 49	21 0	22 4	23 34	24 38	t.
1845 May 21 Wed.	Vaiśākha..... 1768	14 58	13 15	14 33	15 23	16 41	t.
1845 Nov. 13 Thur.	Kārttika..... 1768	23 51	22 14	—	—	25 28	11·2
1847 Mar. 31 Wed.	Chaitra..... 1770	20 29	19 29	—	—	21 29	3·5
1847 Sept. 24 Fri.	Bhādrapada..... 1770	13 36	12 24	—	—	14 48	5·2
1848 Mar. 19 Sun.	Phālguna..... 1770	20 15	18 25	19 26	21 4	22 5	t.
1848 Sept. 13 Wed.	Bhādrapada..... 1771	5 25	3 33	4 34	6 16	7 17	t.
1849 Mar. 8 Thur.	Phālguna..... 1771	23 59	22 29	—	—	25 29	9·1
1849 Sept. 2 Sun.	Bhādrapada..... 1772	16 15	14 53	—	—	17 37	7·2
1851 Jan. 17 Fri.	Pausha..... 1773	15 55	14 41	—	—	17 9	5·7
1851 July 13 Sun.	Āshāḍha..... 1774	6 24	4 55	—	—	7 53	8·7
1852 Jan. 7 Wed.	Pausha..... 1774	5 16	3 25	4 26	6 6	7 7	t.
1852 July 1 Thur.	Āshāḍha..... 1775	14 29	12 39	13 41	15 17	16 19	t.
1852 Dec. 26 Sun.	Mārgaśīrsha..... 1775	12 5	10 38	—	—	13 32	8·8
1853 June 21 Tues.	Jyeshtha..... 1776	5 5	4 12	—	—	5 58	2·7
1854 May 12 Fri.	Vaiśākha..... 1777	14 52	13 54	—	—	15 50	3·2
1854 Nov. 4 Sat.	Kārttika..... 1777	20 16	19 46	—	—	20 46	0·8
1855 May. 2 Wed.	Vaiśākha..... 1778	3 9	1 19	2 20	3 58	4 59	t.
1855 Oct. 25 Thur.	Āśvina..... 1778	6 34	4 44	5 48	7 20	8 24	t.
1856 Apr. 20 Sun.	Chaitra..... 1779	8 11	6 42	—	—	9 40	8·7
1856 Oct. 13 Mon.	Āśvina..... 1779	21 57	20 18	21 50	22 4	23 36	t.
1858 Feb. 27 Sat.	Phālguna..... 1780	21 19	20 14	—	—	22 24	4·2
1858 Aug. 24 Tues.	Śrāvaṇa..... 1781	13 22	12 7	—	—	14 37	5·8
1859 Feb. 17 Thur.	Māgha..... 1781	9 48	7 57	8 58	10 38	11 39	t.
1859 Aug. 13 Sat.	Śrāvaṇa..... 1782	15 35	13 43	14 43	16 27	17 27	t.
1860 Feb. 6 Mon.	Māgha..... 1782	25 31	23 59	—	—	27 3	9·7
1860 Aug. 1 Wed.	Śrāvaṇa..... 1783	16 27	15 13	—	—	17 41	5·6
1861 Dec. 17 Tues.	Mārgaśīrsha..... 1784	7 17	6 29	—	—	8 5	2·2
1862 June 12 Thur.	Jyeshtha..... 1784	5 22	3 38	4 50	5 54	7 6	t.
1862 Dec. 6 Sat.	Mārgaśīrsha..... 1785	6 43	4 54	5 59	7 27	8 32	t.
1863 June 1 Mon.	Jyeshtha..... 1786	22 27	20 42	21 52	23 2	24 12	t.
1863 Nov. 25 Wed.	Kārttika..... 1786	8 0	6 22	—	—	9 38	11·6
1865 Apr. 11 Tues.	Chaitra..... 1788	3 39	2 48	—	—	4 30	2·5
1865 Oct. 4 Wel.	Āśvina..... 1788	21 45	20 40	—	—	22 50	4·2
1866 Mar. 31 Sat.	Chaitra..... 1789	3 36	1 46	2 48	4 24	5 26	t.
1866 Sept. 24 Mon.	Bhādrapada..... 1789	13 10	11 20	12 21	13 59	15 0	t.
1867 Mar. 20 Wed.	Phālguna..... 1789	7 52	6 20	—	—	9 24	9·8
1867 Sept. 13 Fri.	Bhādrapada..... 1790	23 29	22 1	—	—	24 57	8·4
1869 Jan. 27 Wed.	Māgha..... 1791	24 44	23 30	—	—	25 58	5·6
1869 July 23 Fri.	Āshāḍha..... 1792	13 7	11 47	—	—	14 27	6·8
1870 Jan. 17 Mon.	Pausha..... 1792	13 50	11 59	13 0	14 40	15 41	t.
1870 July 12 Tues.	Āshāḍha..... 1793	21 37	19 46	20 47	22 27	23 28	t.
1871 Jan. 6 Fri.	Pausha..... 1793	20 19	18 51	—	—	21 47	8·5
1871 July 2 Sun.	Āshāḍha..... 1794	12 27	11 22	—	—	13 32	4·2
1872 May 22 Wed.	Vaiśākha..... 1795	22 23	21 41	—	—	23 5	1·6
1872 Nov. 15 Fri.	Kārttika..... 1795	4 24	4 3	—	—	4 45	0·4
1873 May 12 Mon.	Vaiśākha..... 1796	10 23	8 34	9 38	11 8	12 12	t.
1873 Nov. 4 Tues.	Kārttika..... 1796	14 55	13 6	14 10	15 40	16 44	t.
1874 May 1 Fri.	Vaiśākha..... 1797	15 8	13 35	—	—	16 41	10·0
1874 Oct. 25 Sun.	Āśvina..... 1797	6 15	4 33	5 54	6 36	7 57	t.

THE INDIAN CALENDAR.

TABLE E.

A. D. Year, Month, and Day.	Hindu Month and Current Śaka Year. ["i. m. i." = with mean intercalations.]	Time measured from Lanka mean sunrise, taken as 6 A. M.						Number of twelfths eclipsed. ["t." = total eclipse.]
		Greatest phase. [i. e. mo- ment of full moon]	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.		
				Begin- ning.	End.			
							h. m.	
1	2	3	4	5	6	7	8	
1876 Mar. 10 Fri.	Phālguna 1798	5 24	4 22	—	—	6 26	3·8	
1876 Sept. 3 Sun.	Bhādrapada 1799	20 26	19 22	—	—	21 30	4·0	
1877 Feb. 27 Tues.	Phālguna 1799	18 22	16 31	17 32	19 12	20 13	t.	
1877 Aug. 23 Thur.	Śrāvāna 1800	22 13	20 22	21 23	23 3	24 4	t.	
1878 Feb. 17 Sun.	Māgha 1800	10 12	8 38	—	—	11 46	10·3	
1878 Aug. 12 Mon.	Śrāvāna 1801	23 10	21 47	—	—	24 33	7·4	
1879 Dec. 28 Sun.	Mārgaśīrsha 1802	15 25	14 40	—	—	16 10	1·9	
1880 June 22 Tues.	Jyeshthā 1803	12 52	11 10	12 31	13 13	14 34	t.	
1880 Dec. 16 Thur.	Mārgaśīrsha 1803	14 42	12 54	13 59	15 25	16 30	t.	
1881 June 12 Sun.	Jyeshthā 1804	5 57	4 9	5 15	6 39	7 45	t.	
1881 Dec. 5 Mon.	Mārgaśīrsha 1804	16 12	14 33	16 12	16 12	17 51	t.	
1883 Apr. 22 Sun.	Chaitra 1806	10 40	10 5	—	—	11 15	1·1	
1883 Oct. 16 Tues.	Āśvina 1806	5 57	4 59	—	—	6 55	3·3	
1884 Apr. 10 Wed.	Chaitra 1807	10 50	9 1	10 5	11 35	12 39	t.	
1884 Oct. 4 Sat.	Āśvina 1807	21 6	19 16	20 18	21 54	22 56	t.	
1885 Mar. 30 Mon.	Chaitra 1808	15 39	14 3	—	—	17 15	11·0	
1885 Sept. 24 Thur.	Bhādrapada 1808	6 52	5 20	—	—	8 24	9·6	
1887 Feb. 8 Tues.	Māgha 1809	9 25	8 13	—	—	10 37	5·3	
1887 Aug. 3 Wed.	Śrāvāna 1810	19 59	18 39	—	—	21 1	5·1	
1888 Jan. 28 Sat.	Māgha 1810	22 21	20 30	21 31	23 11	24 12	t.	
1888 July 23 Mon.	Āshāḍha 1811	4 49	2 57	3 57	5 41	6 41	t.	
1889 Jan. 17 Thur.	Pauṣa 1811	4 33	3 5	—	—	6 1	8·4	
1889 July 12 Fri.	Āshāḍha 1812	19 55	18 40	—	—	21 10	5·9	
1890 June 3 Tues.	Jyeshthā 1813	5 49	5 38	—	—	6 0	0·1	
1890 Nov. 26 Wed.	Kārttika 1813	12 36	12 25	—	—	12 47	0·1	
1891 May 23 Sat.	Vaiśākha 1814	17 29	15 42	16 50	18 8	19 16	t.	
1891 Nov. 15 Sun.	Kārttika 1814	23 21	21 32	22 38	24 4	25 10	t.	
1892 May 11 Wed.	Vaiśākha 1815	21 56	20 18	—	—	23 34	11·6	
1892 Nov. 4 Fri.	Kārttika 1815	14 46	13 4	14 22	15 10	16 28	t.	
1894 Mar. 21 Wed.	Phālguna 1816	13 24	12 27	—	—	14 21	3·1	
1894 Sept. 15 Sat.	Bhādrapada 1817	3 30	2 36	—	—	4 21	2·8	
1895 Mar. 11 Mon.	Phālguna 1817	2 45	0 54	1 55	3 35	4 36	t.	
1895 Sept. 4 Wed.	Bhādrapada 1818	4 59	3 9	4 11	5 47	6 49	t.	
1896 Feb. 28 Fri.	Phālguna 1818	18 48	17 13	—	—	20 23	10·7	
1896 Aug. 23 Sun.	Śrāvāna 1819	6 0	4 30	—	—	7 30	9·0	
1898 Jan. 7 Fri.	Pauṣa 1820	23 33	22 49	—	—	24 17	1·8	
1898 July 3 Sun.	Āshāḍha 1821	20 20	18 43	—	—	21 57	11·2	
1898 Dec. 27 Tues.	Mārgaśīrsha 1821	22 41	20 53	21 59	23 23	24 29	t.	
1899 June 23 Fri.	Jyeshthā 1822	13 20	11 30	12 33	14 7	15 10	t.	
1899 Dec. 16 Sat.	Mārgaśīrsha 1822	24 28	22 48	24 18	24 38	26 8	t.	
1900 June 13 Wed.	Jyeshthā 1823	2 27	2 12	—	—	2 42	0·2	

TABLE F.

MEAN TO APPARENT TIME CORRECTION-TABLE.

OLD STYLE.										NEW STYLE.
Day.	A. D. 200	A. D. 400	A. D. 600	A. D. 800	A. D. 1000	A. D. 1200	A. D. 1400	A. D. 1600	A. D. 1700 to Sept. 2nd. 1752	Since Sept. 14 A. D. 1752
	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.
January 1.....	-12	-11	-10	-10	-9	-9	-9	-9	-8	-4
" 6.....	-14	-13	-13	-12	-11	-11	-11	-11	-10	-6
" 11.....	-16	-15	-15	-14	-13	-13	-13	-12	-12	-8
" 16.....	-18	-16	-16	-16	-15	-14	-14	-13	-13	-10
" 21.....	-19	-18	-17	-17	-16	-15	-15	-14	-14	-12
" 26.....	-19	-19	-18	-18	-17	-16	-15	-14	-14	-13
" 31.....	-20	-19	-18	-18	-17	-16	-16	-15	-14	-14
February 5.....	-20	-19	-18	-17	-16	-16	-15	-15	-14	-14
" 10.....	-19	-18	-18	-17	-16	-16	-15	-14	-13	-14
" 15.....	-18	-17	-17	-16	-15	-15	-14	-13	-13	-14
" 20.....	-17	-16	-16	-15	-15	-14	-13	-13	-12	-14
" 25.....	-16	-15	-14	-14	-13	-12	-12	-12	-11	-13
March 2.....	-14	-13	-13	-12	-12	-11	-11	-10	-10	-13
" 7.....	-12	-11	-11	-10	-10	-9	-9	-8	-8	-11
" 12.....	-9	-9	-9	-9	-8	-8	-7	-7	-7	-10
" 17.....	-7	-7	-7	-7	-6	-6	-5	-5	-5	-8
" 22.....	-5	-5	-5	-5	-5	-4	-4	-4	-4	-7
" 27.....	-3	-3	-3	-3	-3	-3	-2	-2	-2	-5
April 1.....	0	-1	-1	-1	-1	-1	-1	-1	0	-4
" 6.....	+2	+1	+1	+1	+1	0	0	+1	+1	-2
" 11.....	+4	+3	+3	+2	+2	+2	+2	+2	+1	-1
" 16.....	+6	+5	+5	+4	+3	+3	+3	+3	+2	0
" 21.....	+7	+6	+6	+5	+4	+4	+4	+4	+3	+1
" 26.....	+9	+7	+7	+6	+5	+4	+4	+4	+4	+2
May 1.....	+10	+8	+8	+7	+6	+5	+5	+4	+4	+3
" 6.....	+10	+9	+8	+7	+6	+5	+5	+4	+4	+3
" 11.....	+10	+9	+8	+7	+6	+5	+5	+4	+4	+4
" 16.....	+9	+8	+7	+7	+6	+5	+4	+3	+3	+4
" 21.....	+9	+8	+7	+6	+6	+5	+4	+3	+3	+3
" 26.....	+8	+7	+6	+6	+5	+4	+3	+2	+2	+3
" 31.....	+7	+6	+6	+5	+4	+3	+2	+1	+1	+3
June 5.....	+6	+5	+5	+4	+3	+2	+1	0	0	+2
" 10.....	+4	+4	+3	+2	+2	+1	0	-1	-1	+1
" 15.....	+2	+2	+1	+1	0	0	-1	-2	-2	0
" 20.....	0	0	0	0	-1	-1	-2	-3	-3	-1
" 25.....	-2	-2	-2	-2	-2	-2	-3	-3	-3	-2
" 30.....	-3	-3	-3	-3	-3	-3	-4	-4	-4	-3

THE INDIAN CALENDAR.

TABLE F.

MEAN TO APPARENT TIME CORRECTION-TABLE.

OLD STYLE.										NEW STYLE. Since Sept. 14 A. D. 1752
Day.	A. D. 200	A. D. 400	A. D. 600	A. D. 800	A. D. 1000	A. D. 1200	A. D. 1400	A. D. 1600	A. D. 1700 to Sept. 2nd. 1752	
	m.	m.	m.	m.	m.	m.	m.	m.	m.	m.
July 5.....	— 5	— 5	— 5	— 4	— 4	— 4	— 4	— 4	— 4	— 4
„ 10.....	— 6	— 6	— 6	— 5	— 5	— 5	— 5	— 5	— 5	— 5
„ 15.....	— 7	— 6	— 6	— 5	— 5	— 5	— 5	— 5	— 6	— 5
„ 20.....	— 8	— 7	— 7	— 6	— 6	— 6	— 6	— 6	— 6	— 6
„ 25.....	— 8	— 7	— 7	— 6	— 6	— 6	— 6	— 6	— 6	— 6
„ 30.....	— 8	— 7	— 7	— 6	— 6	— 5	— 5	— 5	— 5	— 6
August 4.....	— 7	— 6	— 6	— 5	— 5	— 5	— 4	— 4	— 4	— 6
„ 9.....	— 7	— 6	— 5	— 5	— 4	— 4	— 4	— 3	— 3	— 5
„ 14.....	— 6	— 5	— 4	— 4	— 3	— 3	— 3	— 2	— 2	— 4
„ 19.....	— 4	— 4	— 3	— 2	— 2	— 2	— 1	— 1	0	— 3
„ 24.....	— 2	— 2	— 1	— 1	0	0	+ 1	+ 1	+ 1	— 2
„ 29.....	0	0	0	+ 1	+ 1	+ 2	+ 2	+ 2	+ 3	— 1
September 3.....	+ 2	+ 2	+ 2	+ 2	+ 3	+ 3	+ 3	+ 4	+ 4	0
„ 8.....	+ 4	+ 4	+ 4	+ 4	+ 5	+ 5	+ 5	+ 6	+ 6	+ 2
„ 13.....	+ 6	+ 6	+ 6	+ 6	+ 6	+ 7	+ 7	+ 7	+ 8	+ 4
„ 18.....	+ 8	+ 8	+ 8	+ 8	+ 8	+ 8	+ 9	+ 9	+ 9	+ 6
„ 23.....	+ 10	+ 10	+ 10	+ 10	+ 10	+ 10	+ 11	+ 11	+ 11	+ 8
„ 28.....	+ 12	+ 12	+ 12	+ 12	+ 12	+ 12	+ 12	+ 12	+ 12	+ 10
October 5.....	+ 14	+ 13	+ 13	+ 13	+ 13	+ 13	+ 13	+ 13	+ 14	+ 11
„ 8.....	+ 16	+ 15	+ 15	+ 15	+ 15	+ 15	+ 15	+ 15	+ 15	+ 12
„ 13.....	+ 17	+ 17	+ 16	+ 16	+ 16	+ 16	+ 16	+ 16	+ 16	+ 13
„ 18.....	+ 18	+ 18	+ 17	+ 16	+ 16	+ 16	+ 16	+ 16	+ 16	+ 14
„ 23.....	+ 18	+ 18	+ 17	+ 17	+ 16	+ 16	+ 16	+ 16	+ 16	+ 15
„ 28.....	+ 19	+ 18	+ 18	+ 17	+ 17	+ 16	+ 16	+ 16	+ 16	+ 16
November 2.....	+ 19	+ 18	+ 17	+ 17	+ 16	+ 16	+ 15	+ 15	+ 15	+ 16
„ 7.....	+ 18	+ 17	+ 16	+ 16	+ 15	+ 15	+ 15	+ 14	+ 14	+ 16
„ 12.....	+ 17	+ 16	+ 15	+ 15	+ 14	+ 14	+ 13	+ 13	+ 13	+ 16
„ 17.....	+ 15	+ 14	+ 14	+ 13	+ 13	+ 12	+ 12	+ 12	+ 11	+ 15
„ 22.....	+ 13	+ 12	+ 12	+ 11	+ 11	+ 10	+ 10	+ 10	+ 9	+ 13
„ 27.....	+ 10	+ 9	+ 9	+ 9	+ 9	+ 8	+ 8	+ 8	+ 7	+ 12
December 2.....	+ 7	+ 7	+ 7	+ 7	+ 7	+ 6	+ 6	+ 6	+ 6	+ 10
„ 7.....	+ 4	+ 4	+ 4	+ 4	+ 4	+ 4	+ 3	+ 3	+ 3	+ 8
„ 12.....	+ 1	+ 1	+ 1	+ 1	+ 1	+ 1	+ 1	+ 1	0	+ 6
„ 17.....	— 2	— 2	— 2	— 2	— 2	— 2	— 2	— 2	— 2	+ 3
„ 22.....	— 6	— 5	— 5	— 5	— 5	— 5	— 5	— 5	— 5	+ 1
„ 27.....	— 9	— 8	— 8	— 7	— 7	— 7	— 7	— 7	— 8	— 1
„ 32.....	— 12	— 11	— 10	— 9	— 9	— 9	— 9	— 9	— 9	— 3
„ 37.....	— 14	— 13	— 12	— 12	— 11	— 11	— 11	— 11	— 10	— 6

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APPARENT TIME OF THE SUN'S RISING AND SETTING.

Latitude.		NORTH DECLINATION.													
		0°		2°		4°		6°		8°		9°		10°	
		Mar. 17 \Rightarrow \Leftarrow Sept. 19		Mar. 23 \Rightarrow \Leftarrow Sept. 15		Mar. 28 \Rightarrow \Leftarrow Sept. 10		Apr. 1 \Rightarrow \Leftarrow Sept. 5		Apr. 8 \Rightarrow \Leftarrow Sept. 1		Apr. 12 \Rightarrow \Leftarrow Aug. 29		Apr. 14 \Rightarrow \Leftarrow Aug. 26	
		rises	sets	rises	sets	rises	sets	rises	sets	rises	sets	rises	sets	rises	sets
0°		h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.
0°		6 0	6 0	6 0	6 0	6 0	6 0	6 0	6 0	6 0	6 0	6 0	6 0	6 0	6 0
2°		6 0	6 0	6 0	6 0	6 0	6 0	6 0	6 0	5 59	6 1	5 59	6 1	5 59	6 1
4°		6 0	6 0	6 0	6 0	5 59	6 1	5 59	6 1	5 58	6 2	5 58	6 2	5 57	6 3
6°		6 0	6 0	6 0	6 0	5 58	6 2	5 58	6 2	5 57	6 3	5 57	6 3	5 56	6 4
8°		6 0	6 0	5 59	6 1	5 58	6 2	5 57	6 3	5 56	6 4	5 55	6 5	5 55	6 5
10°		6 0	6 0	5 59	6 1	5 57	6 3	5 56	6 4	5 54	6 6	5 54	6 6	5 53	6 7
12°		6 0	6 0	5 58	6 2	5 57	6 3	5 55	6 5	5 53	6 7	5 53	6 7	5 52	6 8
14°		6 0	6 0	5 58	6 2	5 56	6 4	5 54	6 6	5 52	6 8	5 51	6 9	5 51	6 9
16°		6 0	6 0	5 58	6 2	5 55	6 5	5 53	6 7	5 51	6 9	5 50	6 10	5 48	6 12
18°		6 0	6 0	5 58	6 2	5 55	6 5	5 52	6 8	5 50	6 10	5 48	6 12	5 47	6 13
20°		6 0	6 0	5 57	6 3	5 54	6 6	5 51	6 9	5 48	6 12	5 47	6 13	5 45	6 15
21°		6 0	6 0	5 57	6 3	5 54	6 6	5 51	6 9	5 48	6 12	5 46	6 14	5 44	6 16
22°		6 0	6 0	5 57	6 3	5 54	6 6	5 50	6 10	5 47	6 13	5 45	6 15	5 44	6 16
23°		6 0	6 0	5 57	6 3	5 53	6 7	5 50	6 10	5 46	6 14	5 45	6 15	5 43	6 17
24°		6 0	6 0	5 57	6 3	5 53	6 7	5 49	6 11	5 46	6 14	5 44	6 16	5 42	6 18
25°		6 0	6 0	5 56	6 4	5 53	6 7	5 49	6 11	5 45	6 15	5 43	6 17	5 41	6 19
26°		6 0	6 0	5 56	6 4	5 52	6 8	5 48	6 12	5 44	6 16	5 42	6 18	5 40	6 20
27°		6 0	6 0	5 56	6 4	5 52	6 8	5 48	6 12	5 44	6 16	5 41	6 19	5 39	6 21
28°		6 0	6 0	5 56	6 4	5 51	6 9	5 47	6 13	5 43	6 17	5 41	6 19	5 38	6 22
29°		6 0	6 0	5 56	6 4	5 51	6 9	5 47	6 13	5 42	6 18	5 40	6 20	5 38	6 22
30°		6 0	6 0	5 55	6 5	5 51	6 9	5 46	6 14	5 41	6 19	5 39	6 21	5 37	6 23
31°		6 0	6 0	5 55	6 5	5 50	6 10	5 46	6 14	5 41	6 19	5 38	6 22	5 36	6 24
32°		6 0	6 0	5 55	6 5	5 50	6 10	5 45	6 15	5 40	6 20	5 37	6 23	5 35	6 25
33°		6 0	6 0	5 55	6 5	5 50	6 10	5 44	6 16	5 39	6 21	5 36	6 24	5 34	6 26
34°		6 0	6 0	5 55	6 5	5 49	6 11	5 44	6 16	5 38	6 22	5 35	6 25	5 33	6 27
35°		6 0	6 0	5 55	6 5	5 49	6								

TABLE G. (CONTINUED.)

APPARENT TIME OF THE SUN'S RISING AND SETTING.

N.B. On and after each date entered herein use the column to which it refers. The arrows indicate the order.

Latitude. \Rightarrow \Leftarrow		NORTH DECLINATION.													
		11°		12°		13°		14°		15°		16°		17°	
		\Rightarrow Apr. 17 \Rightarrow \Leftarrow Aug. 23		\Rightarrow Apr. 20 \Rightarrow \Leftarrow Aug. 20		\Rightarrow Apr. 23 \Rightarrow \Leftarrow Aug. 17		\Rightarrow Apr. 26 \Rightarrow \Leftarrow Aug. 14		\Rightarrow Apr. 29 \Rightarrow \Leftarrow Aug. 10		\Rightarrow May 3 \Rightarrow \Leftarrow Aug. 7		\Rightarrow May 6 \Rightarrow \Leftarrow Aug. 3	
		rises	sets	rises	sets	rises	sets	rises	sets	rises	sets	rises	sets	rises	sets
0°	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.
0°	6 0	6 0	6 0	6 0	6 0	6 0	6 0	6 0	6 0	6 0	6 0	6 0	6 0	6 0	6 0
2°	5 59	6 1	5 58	6 2	5 58	6 2	5 58	6 2	5 58	6 2	5 58	6 2	5 58	6 2	5 58
4°	5 57	6 3	5 57	6 3	5 56	6 4	5 56	6 4	5 56	6 4	5 56	6 4	5 55	6 5	5 55
6°	5 56	6 4	5 55	6 5	5 55	6 5	5 54	6 6	5 54	6 6	5 53	6 7	5 53	6 7	5 53
8°	5 54	6 6	5 53	6 7	5 53	6 7	5 52	6 8	5 51	6 9	5 51	6 9	5 50	6 10	5 50
10°	5 52	6 8	5 52	6 8	5 51	6 9	5 50	6 10	5 49	6 11	5 49	6 11	5 48	6 12	5 48
12°	5 51	6 9	5 50	6 10	5 49	6 11	5 48	6 12	5 47	6 13	5 46	6 14	5 45	6 15	5 45
14°	5 50	6 10	5 48	6 12	5 48	6 12	5 46	6 14	5 45	6 15	5 44	6 16	5 43	6 17	5 43
16°	5 47	6 13	5 46	6 14	5 45	6 15	5 44	6 16	5 42	6 18	5 41	6 19	5 40	6 20	5 40
18°	5 46	6 14	5 44	6 16	5 43	6 17	5 41	6 19	5 40	6 20	5 39	6 21	5 37	6 23	5 37
20°	5 44	6 16	5 42	6 18	5 41	6 19	5 39	6 21	5 38	6 22	5 36	6 24	5 34	6 26	5 34
21°	5 43	6 17	5 41	6 19	5 40	6 20	5 38	6 22	5 36	6 24	5 35	6 25	5 33	6 27	5 33
22°	5 42	6 18	5 40	6 20	5 39	6 21	5 37	6 23	5 35	6 25	5 33	6 27	5 32	6 28	5 32
23°	5 41	6 19	5 39	6 21	5 38	6 22	5 36	6 24	5 34	6 26	5 32	6 28	5 30	6 30	5 30
24°	5 40	6 20	5 38	6 22	5 36	6 24	5 34	6 26	5 33	6 27	5 31	6 29	5 29	6 31	5 29
25°	5 39	6 21	5 37	6 23	5 35	6 25	5 33	6 27	5 31	6 29	5 29	6 31	5 27	6 33	5 27
26°	5 38	6 22	5 36	6 24	5 34	6 26	5 32	6 28	5 30	6 30	5 28	6 32	5 26	6 34	5 26
27°	5 37	6 23	5 35	6 25	5 33	6 27	5 31	6 29	5 29	6 31	5 26	6 34	5 24	6 36	5 24
28°	5 36	6 24	5 34	6 26	5 32	6 28	5 30	6 30	5 27	6 33	5 25	6 35	5 23	6 37	5 23
29°	5 35	6 25	5 33	6 27	5 31	6 29	5 28	6 32	5 26	6 34	5 23	6 37	5 21	6 39	5 21
30°	5 34	6 26	5 32	6 28	5 29	6 31	5 27	6 33	5 24	6 36	5 22	6 38	5 19	6 41	5 19
31°	5 33	6 27	5 31	6 29	5 28	6 32	5 26	6 34	5 23	6 37	5 20	6 40	5 18	6 42	5 18
32°	5 32	6 28	5 29	6 31	5 27	6 33	5 24	6 36	5 21	6 39	5 19	6 41	5 16	6 44	5 16

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APPARENT TIME OF THE SUN'S RISING AND SETTING.

N.B. On and after each date entered herein use the column to which it refers. The arrows indicate the order.

Latitude. \Rightarrow \Leftarrow		NORTH DECLINATION.													
		18°		19°		20°		21°		22°		23°		23½°	
		\Rightarrow May 10 \Rightarrow \Leftarrow July 30 \Leftarrow		\Rightarrow May 14 \Rightarrow \Leftarrow July 26 \Leftarrow		\Rightarrow May 18 \Rightarrow \Leftarrow July 21 \Leftarrow		\Rightarrow May 23 \Rightarrow \Leftarrow July 15 \Leftarrow		\Rightarrow May 28 \Rightarrow \Leftarrow July 5 \Leftarrow		\Rightarrow June 5 \Rightarrow \Leftarrow June 29 \Leftarrow		\Rightarrow June 14 \Rightarrow \Leftarrow \Leftarrow	
		rises	sets	rises	sets	rises	sets	rises	sets	rises	sets	rises	sets	rises	sets
0°	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.
0°	6 0	6 0	6 0	6 0	6 0	6 0	6 0	6 0	6 0	6 0	6 0	6 0	6 0	6 0	6 0
2°	5 58	6 2	5 58	6 2	5 58	6 2	5 57	6 3	5 57	6 3	5 57	6 3	5 57	6 3	5 57
4°	5 55	6 5	5 55	6 5	5 55	6 5	5 54	6 6	5 54	6 6	5 53	6 7	5 53	6 7	5 53
6°	5 52	6 8	5 52	6 8	5 52	6 8	5 51	6 9	5 51	6 9	5 50	6 10	5 50	6 10	5 50
8°	5 50	6 10	5 49	6 11	5 49	6 11	5 48	6 12	5 47	6 13	5 47	6 13	5 46	6 14	5 46
10°	5 47	6 13	5 46	6 14	5 46	6 14	5 45	6 15	5 44	6 16	5 43	6 17	5 43	6 17	5 43
12°	5 44	6 16	5 44	6 16	5 43	6 17	5 42	6 18	5 41	6 19	5 40	6 20	5 39	6 21	5 39
14°	5 41	6 19	5 40	6 20	5 39	6 21	5 38	6 22	5 37	6 23	5 36	6 24	5 35	6 25	5 35
16°	5 39	6 21	5 37	6 23	5 36	6 24	5 35	6 25	5 33	6 27	5 32	6 28	5 31	6 29	5 31
18°	5 36	6 24	5 34	6 26	5 33	6 27	5 31	6 29	5 30	6 30	5 28	6 32	5 28	6 32	5 28
20°	5 33	6 27	5 31	6 29	5 30	6 30	5 28	6 32	5 26	6 34	5 24	6 36	5 24	6 36	5 24
21°	5 31	6 29	5 30	6 30	5 28	6 32	5 26	6 34	5 24	6 36	5 22	6 38	5 22	6 38	5 22
22°	5 30	6 30	5 28	6 32	5 26	6 34	5 24	6 36	5 22	6 38	5 21	6 39	5 20	6 40	5 20
23°	5 28	6 32	5 26	6 34	5 24	6 36	5 22	6 38	5 21	6 39	5 19	6 41	5 18	6 42	5 18
24°	5 27	6 33	5 25	6 35	5 23	6 37	5 21	6 39	5 19	6 41	5 16	6 44	5 15	6 45	5 15
25°	5 25	6 35	5 23	6 37	5 21	6 39	5 19	6 41	5 17	6 43	5 14	6 46	5 13	6 47	5 13
26°	5 24	6 36	5 21	6 39	5 19	6 41	5 17	6 43	5 15	6 45	5 12	6 48	5 11	6 49	5 11
27°	5 22	6 38	5 20	6 40	5 17	6 43	5 15	6 45	5 12	6 48	5 10	6 50	5 9	6 51	5 9
28°	5 20	6 40	5 18	6 42	5 15	6 45	5 13	6 47	5 10	6 50	5 8	6 52	5 7	6 53	5 7
29°	5 18	6 42	5 16	6 44	5 13	6 47	5 11	6 49	5 8	6 52	5 6	6 54	5 4	6 56	5 4
30°	5 17	6 43	5 14	6 46	5 11	6 49	5 9	6 51	5 6	6 54	5 3	6 57	5 2	6 58	5 2
31°	5 15	6 45	5 12	6 48	5 9	6 51	5 7	6 53	5 4	6 56	5 1	6 59	5 0	7 0	5 0
32°	5 13	6 47	5 10	6 50	5 7	6 53	5 4	6 56	5 2	6 58	4 59	7 1	4 57	7 3	4 57
33°	5 11	6 49	5 8	6 52	5 5	6 55	5 2	6 58	4 59	7 1	4 56	7 4	4 55	7 5	4 55
34°	5 9	6 51	5 6	6 54	5 3	6 57	5 0	7 0	4 57	7 3	4 53	7 7	4 52	7 8	4 52
35°	5 7	6 53	5 4	6 56	5 1	6 59	4 58	7 2	4 54	7 6	4 51	7 9	4 49	7 11	4 49
36°	5 5	6 55	5 2	6 58	4 50	7 1	4 55	7 5	4 52	7 8	4 48	7 12	4 46	7 14	4 46
37°	5 3	6 58	5 0	7 0	4 56	7 4	4 53	7 7	4 49	7 11	4 45	7 15	4 44	7 16	4 44
38°	5 1	6 59	4 58	7 2	4 53	7 7	4 50	7 10	4 46	7 14	4 43	7 17	4 41	7 19	4 41
39°	4 59	7 1	4 55	7 5	4 51	7 9	4 48	7 12	4 44	7 16	4 40	7 20	4 38	7 22	4 38
\Rightarrow \Leftarrow		sets	rises	sets	rises	sets	rises	sets	rises	sets	rises	sets	rises	sets	rises
		\Rightarrow Nov. 11 \Rightarrow \Leftarrow Jan. 27 \Leftarrow		\Rightarrow Nov. 15 \Rightarrow \Leftarrow Jan. 23 \Leftarrow		\Rightarrow Nov. 19 \Rightarrow \Leftarrow Jan. 18 \Leftarrow		\Rightarrow Nov. 24 \Rightarrow \Leftarrow Jan. 13 \Leftarrow		\Rightarrow Nov. 29 \Rightarrow \Leftarrow Jan. 6 \Leftarrow		\Rightarrow Dec. 6 \Rightarrow \Leftarrow Dec. 29 \Leftarrow		\Rightarrow Dec. 15 \Rightarrow \Leftarrow \Leftarrow	
		18°		19°		20°		21°		22°		23°		23½°	
SOUTH DECLINATION.															

THE INDIAN CALENDAR.

TABLE H.

ECLIPSES BY NAUTICAL ALMANACK RECKONING.

N.B. It is probable that up to A.D. 1821 von Oppolzer's Canon is more reliable than the Nautical Almanack.

A. D. Year, Month, and Day.		Time measured from Lanka mean sunrise, taken as 6 A. M.					
		Greatest phase.	Begin- ning of Eclipse.	Period of total obscuration.			End of Eclipse.
				Begin- ning.	End.		
1		3	4	5	6	7	
1768 Jan. 4.....		3 32	2 26	—	—	4 37	
1768 June 30.....		2 53	1 6	2 18	3 27	4 40	
1768 Dec. 23.....		14 10	12 21	13 20	15 0	15 58	
1769 June 19.....	} omitted in Nautical Almanack.						
1769 Dec. 13.....							
1771 Apr. 29.....		1 12	0 6	—	—	2 19	
1771 Oct. 23.....		15 33	14 24	—	—	16 43	
1772 Apr. 17.....		15 9	13 22	14 19	15 59	16 56	
1772 Oct. 11.....		16 17	14 19	15 25	17 9	18 15	
1773 Apr. 7.....		7 46	6 23	—	—	9 8	
1773 Sept. 30.....		16 56	15 25	—	—	18 26	
1775 Feb. 15.....		14 14	12 50	—	—	15 38	
1775 Aug. 11.....		6 19	4 50	—	—	7 48	
1776 Feb. 4.....		13 32	11 33	12 38	14 25	15 30	
1776 July 30.....		23 5	21 19	22 18	23 53	24 52	
1777 Jan. 23.....		15 27	14 2	—	—	16 51	
1777 July 20.....		11 51	11 14	—	—	12 27	
1778 Dec. 4.....		4 31	3 18	—	—	5 43	
1779 May 30.....		3 55	2 2	3 13	4 37	5 48	
1779 Nov. 23.....		18 48	16 58	17 58	19 38	20 38	
1780 May 18.....		10 1	8 24	—	—	11 38	
1780 Nov. 12.....		3 21	1 55	—	—	4 48	
1782 Mar. 29.....		7 26	6 5	—	—	8 47	
1782 Sept. 21.....		13 20	12 16	—	—	14 24	
1783 Mar. 18.....		20 34	18 42	19 43	21 25	22 26	
1783 Sept. 10.....		22 35	20 44	21 44	23 26	24 26	
1784 Mar. 7.....		2 42	1 31	—	—	3 54	
1784 Aug. 30.....		13 48	12 26	—	—	15 10	
1786 Jan. 14.....		11 57	10 46	—	—	13 8	
1786 July 11.....		9 49	8 4	9 29	10 8	11 33	
1787 Jan. 3.....		22 56	21 8	22 6	23 45	24 43	
1787 June 30.....		12 35	11 43	12 59.	14 10	15 26	
1787 Dec. 24.....		14 10	12 45	—	—	15 36	
1789 May 9.....		8 31	7 27	—	—	9 23	
1789 Nov. 2.....		23 19	22 15	—	—	24 24	
1790 Apr. 28.....		23 3	21 16	22 14	23 51	24 49	
1790 Oct. 22.....		23 42	21 44	22 51	24 34	25 41	
1791 Apr. 18.....		15 44	14 18	—	—	17 11	
1791 Oct. 11.....		24 26	22 50	—	—	26 1	
1793 Feb. 25.....		22 1	20 40	—	—	23 23	
1793 Aug. 21.....		13 59	12 35	—	—	15 23	
1794 Feb. 14.....		21 24	19 25	20 31	22 17	23 22	

ECLIPSES OF THE MOON IN INDIA.

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TABLE H. (CONTINUED.)

ECLIPSES BY NAUTICAL ALMANACK RECKONING.

N.B. *It is probable that up to A.D. 1821 von Oppolzer's Canon is more reliable than the Nautical Almanack.*

A. D. Year, Month, and Day.	Time measured from Lailka mean sunrise, taken as 6 A. M.				
	Greatest phase.	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.
			Begin- ning.	End.	
1	3	4	5	6	7
1794 Aug. 11.....	6 32	4 44	5 42	7 22	8 19
1795 Feb. 3.....	23 42	22 16	—	—	25 8
1795 July 31.....	18 51	17 56	—	—	19 47
1796 Dec. 14.....	13 19	12 7	—	—	14 32
1797 June 9.....	10 32	8 43	10 0	11 4	12 21
1797 Dec. 4.....	3 21	1 31	2 30	4 11	5 11
1798 May 29.....	17 10	15 27	16 45	17 35	18 53
1798 Nov. 23.....	11 28	9 59	—	—	12 56
1800 Apr. 9.....	15 28	14 11	—	—	16 46
1800 Oct. 2.....	20 48	19 53	—	—	21 43
1801 Mar. 30.....	4 27	2 35	3 35	5 19	6 19
1801 Sept. 22.....	6 21	4 32	5 32	7 10	8 10
1802 Mar. 19.....	10 17	9 1	—	—	11 34
1802 Sept. 11.....	21 39	20 13	—	—	23 5
1804 Jan. 26.....	20 23	19 13	—	—	21 32
1804 July 22.....	16 40	15 1	—	—	18 19
1805 Jan. 15.....	7 43	5 55	6 53	8 32	9 30
1805 July 11.....	20 7	18 12	19 22	20 52	22 2
1806 Jan. 4.....	23 3	21 37	—	—	24 29
1807 May 21.....	15 51	15 8	—	—	16 34
1807 Nov. 15.....	7 12	6 11	—	—	8 13
1808 May 10.....	6 40	4 55	5 53	7 27	8 25
1808 Nov. 3.....	7 16	5 19	6 26	8 5	9 12
1809 Apr. 29.....	23 42	22 11	—	—	25 12
1809 Oct. 23.....	8 5	6 28	—	—	9 42
1811 Mar. 10.....	5 41	4 24	—	—	6 58
1811 Sept. 2.....	21 45	20 26	—	—	23 3
1812 Feb. 27.....	5 8	3 10	4 16	6 0	7 6
1812 Aug. 22.....	14 4	12 15	13 13	14 55	15 53
1813 Feb. 15.....	7 54	6 28	—	—	9 20
1813 Aug. 12.....	1 56	0 49	—	—	3 3
1814 Dec. 26.....	22 11	21 0	—	—	23 22
1815 June 21.....	17 9	15 25	17 2	17 16	18 53
1815 Dec. 16.....	11 58	10 10	11 9	12 47	13 46
1816 June 9.....	24 17	22 32	23 41	24 53	26 3
1816 Dec. 4.....	19 38	18 9	—	—	21 8
1818 Apr. 20.....	23 23	22 13	—	—	24 34
1818 Oct. 14.....	4 28	3 42	—	—	5 14
1819 Apr. 10.....	12 11	10 20	11 20	13 2	14 2
1819 Oct. 3.....	14 16	12 28	13 28	15 4	16 4
1820 Mar. 29.....	17 46	16 25	—	—	19 7
1820 Sept. 22.....	5 38	4 9	—	—	7 6
1822 Feb. 6.....	4 46	3 38	—	—	5 54
1822 Aug. 2.....	23 30	21 58	—	—	25 2
1823 Jan. 26.....	16 28	14 41	15 39	17 17	18 14

TABLE H. (CONTINUED.)

ECLIPSES BY NAUTICAL ALMANACK RECKONING.

N.B. It is probable that up to A. D. 1821 von Oppolzer's Canon is more reliable than the Nautical Almanack.

A. D. Year, Month, and Day.	Time measured from Lanka mean sunrise, taken as 6 A. M.				
	Greatest phase.	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.
			Begin- ning.	End.	
1	3	4	5	6	7
1823 July 23.....	2 35	0 39	1 46	3 25	4 31
1824 Jan. 16.....	7 57	6 31	—	—	9 22
1824 July 11.....	3 18	2 34	—	—	4 2
1825 May 31.....	23 9	22 54	—	—	23 23
1825 Nov. 25.....	15 12	14 15	—	—	16 9
1826 May 21.....	14 18	12 35	13 35	15 1	16 1
1826 Nov. 14.....	14 59	13 3	14 11	15 47	16 55
1827 May 11.....	7 19	5 46	*	*	8 53
1827 Nov. 3.....	15 57	14 19	—	—	17 35
1829 Mar. 20.....	13 11	12 0	—	—	14 23
1829 Sept. 13.....	5 36	4 24	—	—	6 48
1830 Mar. 9.....	12 46	10 49	11 54	13 38	14 43
1830 Sept. 2.....	21 41	19 53	20 51	22 31	23 20
1831 Feb. 26.....	15 59	14 30	—	—	17 27
1831 Aug. 23.....	9 3	7 47	—	—	10 19
1833 Jan. 6.....	7 2	5 52	—	—	8 13
1833 July 1.....	23 45	22 7	—	—	25 23
1833 Dec. 26.....	20 35	18 46	19 46	21 24	22 24
1834 June 21.....	7 23	5 35	6 40	8 5	9 10
1834 Dec. 16.....	3 51	2 22	—	—	5 20
1835 June 10.....	21 39	21 10	—	—	22 7
1836 May 1.....	7 9	6 7	—	—	8 12
1836 Oct. 24.....	12 17	11 41	—	—	12 53
1837 Apr. 20.....	19 44	17 53	18 54	20 34	21 35
1837 Oct. 13.....	22 20	20 34	21 34	23 6	24 6
1838 Apr. 9.....	25 2	23 35	—	—	26 28
1838 Oct. 3.....	13 44	12 13	—	—	15 15
1840 Feb. 17.....	13 5	11 59	—	—	14 11
1840 Aug. 13.....	6 26	5 1	—	—	7 51
1841 Feb. 5.....	25 10	23 23	24 21	25 58	26 56
1841 Aug. 2.....	9 4	7 7	8 12	9 56	11 1
1842 Jan. 26.....	16 47	15 21	—	—	18 13
1842 July 22.....	9 50	8 48	—	—	10 53
1843 Dec. 6.....	23 14	22 21	—	—	24 7
1844 May 31.....	21 53	20 12	21 15	22 31	23 34
1844 Nov. 24.....	22 48	20 53	22 1	23 34	24 42
1845 May 21.....	14 57	13 20	14 34	15 20	16 34
1845 Nov. 13.....	23 52	22 13	—	—	25 31
1847 Mar. 31.....	20 29	19 26	—	—	21 32
1847 Sept. 24.....	13 36	12 30	—	—	14 43
1848 Mar. 19.....	20 15	18 19	19 24	21 6	22 11
1848 Sept. 13.....	5 22	3 34	4 33	6 11	7 10
1849 Mar. 8.....	23 58	22 28	—	—	25 28
1849 Sept. 2.....	16 13	14 50	—	—	17 36
1851 Jan. 17.....	15 53	14 43	—	—	17 3

* The Nautical Almanack gives the eclipse as not quite total the digits eclipsed being $11^{\circ} 47\frac{1}{2}'$.

TABLE H. (CONTINUED.)

ECLIPSES BY NAUTICAL ALMANACK RECKONING.

N.B. It is probable that up to A. D. 1821 von Oppolzer's Canon is more reliable than the Nautical Almanack.

A. D. Year, Month, and Day.	Time measured from Lanka mean sunrise, taken as 6 A. M.				
	Greatest phase.	Begin- ning of Eclipse.	Period of total obscuration.		End of Eclipse.
			Begin- ning.	End.	
1	3	4	5	6	7
1851 July 13.....	6 24	4 53	—	—	7 55
1852 Jan. 7.....	5 13	3 24	4 24	6 2	7 2
1852 July 1.....	14 29	12 40	13 41	15 16	16 17
1852 Dec. 26.....	12 6	10 36	—	—	13 35
1853 June 21.....	5 4	4 16	—	—	5 53
1854 May 12.....	14 49	13 56	—	—	15 41
1854 Nov. 4.....	20 15	19 48	—	—	20 42
1855 May 2.....	3 8	1 17	2 20	3 56	4 59
1855 Oct. 25.....	6 32	4 47	5 48	7 16	8 18
1856 Apr. 20.....	8 9	6 37	—	—	9 42
1856 Oct. 13.....	21 57	20 24	—*	—*	23 30
1858 Feb. 27.....	21 17	20 13	—	—	22 20
1858 Aug. 24.....	13 23	12 7	—	—	14 40
1859 Feb. 17.....	9 46	8 0	8 58	10 34	11 32
1859 Aug. 13.....	15 37	13 39	14 44	16 30	17 35
1860 Feb. 6†.....	25 32	24 5	—	—	26 59
1860 Aug. 1.....	16 28	15 11	—	—	17 44
1861 Dec. 17.....	7 21	6 30	—	—	8 12
1862 June 12.....	5 24	3 45	4 53	5 55	7 3
1862 Dec. 6.....	6 43	4 49	5 58	7 29	8 38
1863 June 1.....	22 29	20 49	21 56	23 2	24 9
1863 Nov. 25.....	7 59	6 19	—	—	9 39
1863 Apr. 11.....	3 41	2 48	—	—	4 34
1863 Oct. 4.....	21 43	20 42	—	—	22 44
1866 Mar. 31.....	3 36	1 41	2 47	4 25	5 31
1866 Sept. 24.....	13 10	11 23	12 22	13 58	14 57
1867 Mar. 20.....	7 52	6 19	—	—	9 25
1867 Sept. 13.....	23 29	22 0	—	—	24 58
1869 Jan. 27.....	24 41	23 32	—	—	25 50
1869 July 23.....	13 6	11 43	—	—	14 28
1870 Jan. 17.....	13 49	12 0	13 0	14 38	15 38
1870 July 12.....	21 37	19 47	20 47	22 27	23 27
1871 Jan. 6.....	20 19	18 49	—	—	21 49
1871 July 2.....	12 31	11 29	—	—	13 32
1872 May 22.....	22 21	21 44	—	—	22 59
1872 Nov. 15.....	4 22	4 5	—	—	4 40
1873 May 12.....	10 23	8 33	9 38	11 8	12 13
1873 Nov. 4.....	14 54	13 10	14 11	15 37	16 38
1874 May 1.....	15 6	13 28	—	—	16 44
1874 Oct. 25.....	6 19	4 45	6 3	6 36	7 54
1876 Mar. 10.....	5 24	4 24	—	—	6 24
1876 Sept. 3.....	20 25	19 18	—	—	21 32
1877 Feb. 27.....	18 18	16 33	17 30	19 6	20 4
1877 Aug. 23.....	22 14	20 17	21 22	23 7	24 12
1878 Feb. 17.....	10 14	8 46	—	—	11 42

* The Nautical almanack gives this as not quite total, the digits eclipsed being 0.994.

† The day is really the 7th (1.32, etc.). The entry of the sixth is retained for comparison with Table E.

TABLE H. (CONTINUED)

ECLIPSES BY NAUTICAL ALMANACK RECKONING.

N.B. It is probable that up to A.D. 1821 von Oppolzer's Canon is more reliable than the Nautical Almanack.

A. D. Year, Month, and Day.		Time measured from Lauka mean sunrise, taken as 6 A. M.					
		Greatest phase.	Begin- ning of Eclipsce.	Period of total obscuration.			End of Eclipsce.
				Begin- ning.	End.		
1		3	4	5	6	7	
1878 Aug. 12.....		23 11	21 46	—	—	24 37	
1879 Dec. 28.....		15 29	14 40	—	—	16 18	
1880 June 22.....		12 53	11 18	12 34	13 12	14 28	
1880 Dec. 16.....		14 42	12 48	13 57	15 27	16 36	
1881 June 12.....		5 56	4 14	5 17	6 36	7 39	
1881 Dec. 5.....		16 11	14 31	—*	—*	17 52	* The Nautical Almanack makes this eclipse just short of total.
1883 Apr. 22... ..		10 42	10 6	—	—	11 17	
1883 Oct. 16.....		5 57	5 2	—	—	6 53	
1884 Apr. 10.....		10 50	8 56	10 3	11 36	12 44	
1884 Oct. 4.....		21 5	19 18	20 19	21 51	22 52	
1885 Mar. 30.....		15 37	14 2	—	—	17 13	
1885 Sept. 24.....		6 51	5 18	—	—	8 25	
1887 Feb. 8.....		9 25	8 17	—	—	10 33	
1887 Aug. 3.....		19 52	18 39	—	—	21 5	
1888 Jan. 28.....		22 23	20 34	21 34	23 12	24 12	
1888 July 23.....		4 48	2 58	3 57	5 39	6 38	
1889 Jan. 17.....		4 33	3 2	—	—	6 4	
1889 July 12.....		19 57	18 46	—	—	21 8	
1890 June 3.....		†	†	†	†	†	
1890 Nov. 26.....		12 37	12 32	—	—	12 42	
1891 May 23.....		17 32	15 44	16 52	18 12	19 20	
1891 Nov. 15.....		23 22	21 38	22 49	24 4	25 6	
1892 May 11.....		21 56	20 13	—	—	23 40	
1892 Nov. 4.....		14 48	13 12	14 24	15 12	16 34	
1894 Mar. 21.....		13 24	12 29	—	—	14 18	
1894 Sept. 15.....		3 35	2 39	—	—	4 30	
1895 Mar. 11.. ..		2 42	0 57	1 55	3 30	4 28	
1895 Sept. 4.....		5 0	3 3	4 10	5 30	6 57	
1896 Feb. 28.....		18 49	17 19	—	—	20 19	
1896 Aug. 23.....		6 0	4 27	—	—	7 33	
1898 Jan. 7.....		23 38	22 50	—	—	24 25	
1898 July 3.....		20 21	18 49	—	—	21 52	
1898 Dec. 27.....		22 45	20 51	22 0	23 30	24 39	
1899 June 23.....		13 21	11 36	12 36	14 6	15 6	
1899 Dec. 16.....		24 29	22 48	—§	—§	26 10	
1900 June 13.....		2 31	2 27	—	—	2 34	§ The Nautical Almanack makes this Eelipse just short of total.

